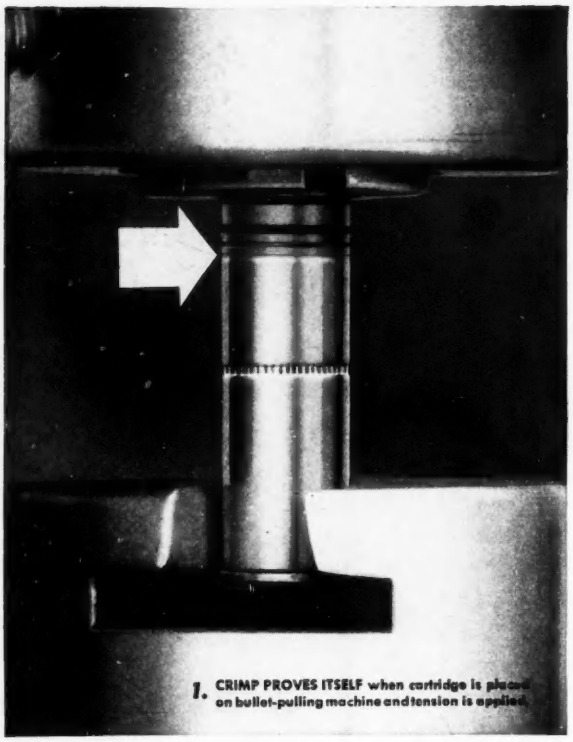
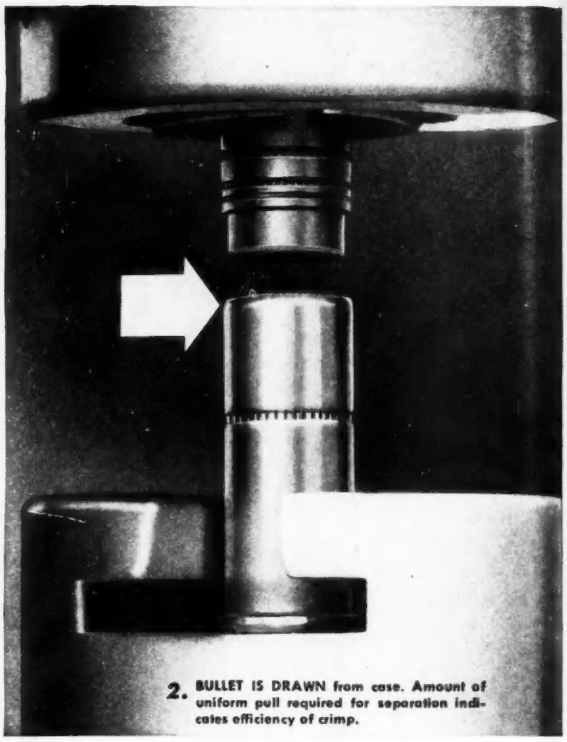
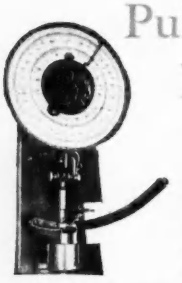
AMERICAN RIFLEMAN



1. CRIMP PROVES ITSELF when cartridge is placed on bullet-pulling machine and tension is applied.



2. BULLET IS DRAWN from case. Amount of uniform pull required for separation indicates efficiency of crimp.



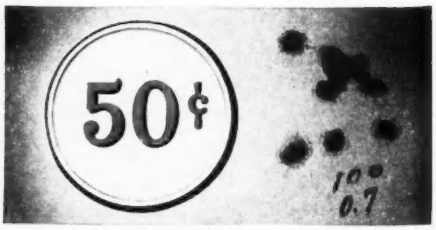
Pull-apart test has hand in high scores

"BUILDER-UPPERS . . . breaker-downers!" That's the reputation of Peters technical men. For they not only put match cartridges together . . . they pull them apart. The test you see above, made by a Peters bullet-pulling machine, checks samples from every lot of Peters match ammunition for uniform perfection in crimping, so important to fine accuracy and high scores on the range. To meet the rigid specifications of Peters 22 match cartridges, the amount of bullet pull must be within closely controlled tolerances.

This is one of many checks made by Peters technical men to assure exactness of match cartridge manufacture. These tests mean that every Peters match cartridge you shoot is the same as every other, to an unbelievably precise degree. Hence, along with your good aim and steady hold, these cartridges pack the accuracy you need for *possible after possible* on rifle or pistol ranges.

Next time you go pistol shooting, load up for a possible with Peters Police Match or Peters Target 22's. Made *by* experts *for* experts—for *any* make of modern American pistol or rifle—*there's no more accurate rim fire ammunition in the world!*

TO BACK UP your good aim, Peters technical men study Peters match ammunition for maintenance of close tolerances . . . assurance of perfect shooting, maximum accuracy.



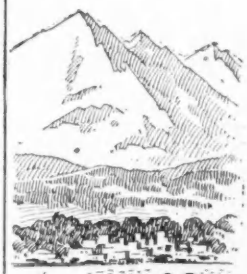
THE PROOF IS IN THE POSSIBLES! 50¢ piece covers this Peters Police Match 22 group, shot by machine rest pistol with 6" barrel at 50 yards.

PETERS
PACKS THE POSSIBLES

PETERS CARTRIDGE DIVISION, *Remington Arms Co., Inc., Bridgeport 2, Conn.—"Target" is Reg. U. S. Pat. Off.—"Police Match" is a trade mark of Peters Cartridge Division.*

FOR

Brilliant Binocular Performance



You'll choose a binocular on the basis of its ability to give you a bright *close-up* view, sharply defined. For this brilliant performance, the world has never known a glass equal to the postwar Bausch & Lomb Zephyr-Light binocular. Before you buy any binocular, read the new 32-page Bausch & Lomb catalog. It tells what qualities to look for in a binocular, how to choose one best suited to your own needs. Your copy by return mail, free on request. Bausch & Lomb Optical Company, 276-P Lomb Park, Rochester 2, N. Y.

7X,35 Zephyr-Light Binocular
$140 plus tax.

Purchase Your Shooting Equipment On Our

TIME PAYMENT PLAN

And Enjoy Its Immediate Use

ONE-FOURTH WITH ORDER, balance in 5 monthly payments. PROMPT DELIVERY.

Minimum Payments of Ten Dollars

RIFLES & SHOTGUNS

NEW REMINGTON HIGH POWER BOLT ACTION RIFLE MODEL 721, .30-06, .270, AND .300 MAGNUM CALIBERS (future delivery)	$ 79.95
NEW Remington Junior Special Model 521 .22 caliber target rifle with Lyman sights	34.95
Remington Model 513 TR, Target Rifle complete with Redfield Sights and Gov't. Type Sling	53.50
Remington Model 37 Rifle with Redfield sights	113.60
Stevens 416 Target Rifle .22 caliber, factory sights	53.20
Marlin Model 39A .22 caliber, Lever Action Tubular Magazine	50.45
Ithaca Model 37 Shotgun, 12 gauge, 30 inch full or 28 inch modified	78.50
L. C. Smith Double Barrel Shotguns, 12, 16, & 20 gauge.	
Field Grade	96.10
Ideal Grade	128.95

PISTOLS & REVOLVERS

High Standard .22 caliber automatic Model HD-M, 4½ & 6¾-inch barrel, $51.17, with T. R. Grip	56.17
NEW High Standard Model G .380 caliber Automatic, 5-inch barrel	55.00
Harrington & Richardson Model 999 Double Action .22 caliber 9 shot revolver	44.95
Colt Government Model .45 caliber Automatic Pistol	65.00
Colt Super 38	65.00
Smith & Wesson Military & Police Revolver, square butt, .38 caliber, 4, 5 & 6 inch barrel	56.50
Now accepting orders on the following for Future Delivery:	
Colt Match Target Woodsman	85.00
Colt Target Woodsman	70.00
Colt Sport Woodsman	60.00
Smith & Wesson K-22 & K-38	65.00

AIR RIFLES

Apache Air Rifle	24.95
.250 caliber Shot, Pack 100	.50
Crossman Air Rifle, .177 and .22 caliber	19.95
New Crossman Bullseye Air Pistol .177 caliber. Single Shot	19.80
Hy-Score Air Pistol, .177 and .22 caliber	19.85
Johnson Indoor Target Gun	15.00

MISCELLANEOUS ITEMS

10 X Imperial Shooting Coat	15.00
10 X Shooting Glove	4.00
Drybak Target Shooters Coat	10.00
Rifle Cleaning Kits—all calibers—complete with Cleaning Rod, Oil, Solvent, etc.	2.50
Brauer Bros. Sheepskin Rifle Cases	8.50
Same for Rifle with Telescope	10.50

TARGET SCOPES

Unertl Small Game Scope, 4 & 6 power	$ 40.00
Unertl Varmit Scope, 6 & 8 power	75.00
Unertl Target Scope, 1 inch objective, 8 & 10 power	58.00
Unertl Target Scope, 1¼ inch objective, 10 & 12 power	78.00
Unertl Target Scope, 1½ inch objective, 10, 14 and 20 power	90.00
Unertl Target Scope, 2 inch objective, 10, 15 and 20 power	125.00
Litschert "Targeteer" Junior Scope, ⅞ inch objective	54.50
Litschert "Targeteer" Senior Scope, 1½ inch objective	89.50
Fecker, Target Scope, ¾ inch objective, 4.5 and 6 power	52.50
Fecker Target Scope, 1⅛ inch objective, 8, 10, and 12 power	62.50
Fecker Target Scope, 1¼ inch objective, 8, 10 & 12 power	70.00
Fecker Target Scope, 1½ inch objective, 10 and 12.5 power	93.50
Fecker Target Scope, 1⅝ inch objective, 10, 12.5, 16 & 20 power	98.50
Fecker "Woodchucker" Scope, 1.2 inch objective 4.5, 5.5 & 7 power	62.50

HUNTING SCOPES

Weaver K2.5, 2½ power	37.50
Weaver K4, 4 power	45.00
Weaver K6, 6 power	48.50
Weaver J2.5, 2½ power	22.50
Weaver J4, 4 power	27.50
Weaver G4, 4 power	9.75
Weaver G6, 6 power	12.50
Lyman Alaskan	60.00
Bear Cub, 2½ power	50.00
Mossberg 4-power, low mounting 5M4	9.95

Stith, King-Pike and Redfield Mounts available

SPOTTING SCOPES

Argus Super Spotting Scope	74.50
Freeland Stand	9.50
Mossberg Spotshot	22.30
Mossberg Stand	9.95
Mark 218 Spotting Scope	22.50

BINOCULARS

(Prices shown include tax)

Bausch & Lomb Zephyr Light Hard Coated Lens.	
6 x 30	162.00
7 x 35	168.00
8 x 30	180.00
9 x 35	186.00
7 x 50 (not Zephyr Light)	194.40
Carl Zeiss Light Weight Hard Coated Lens.	
6 x 30	138.00
8 x 30	156.00
Wollensak 6x30 Binocular	90.00
Universal 6x30 Binocular	102.00
Sard 6x20 Sportsman Binocular	198.00
Kollmorgan "De Luxe" Monette Monocular	49.50
Ray Ban Shooting Glasses	17.50

Write for mimeographed list of items we are now offering.

PARKER-WHELEN CO., INC.

Dept. R-3 • 827 14th St., N.W., Washington 5, D. C.

RIFLEMAN WORDS . . . .

Each month this "lexicon for shooters" is devoted to a few words peculiar to the shooting game which may be puzzling to the newcomer. All words defined are used in a current article.

BERDAN PRIMER—A primer developed by Colonel Berdan of the U. S. Ordnance Department around 1870. It is now used by most foreign countries. The primer anvil is made integral with the cartridge case rather than separate as in the Boxer-type primer which has been standard in the U. S. for about the past 50 years. The Boxer-type primer was developed by Colonel Boxer of the English Ordnance Department.

BOLT HANDLE—A member protruding from a bolt sleeve or body by which the bolt is manipulated to cock the rifle, load cartridges, and extract empty cases.

BOLT-HEAD GUIDE—A groove milled into the side of the receiver in which one of the locking lugs slides.

BOLT-RETAINING CATCH—A pin or lever which prevents the bolt of a rifle from being pulled out of the receiver when the bolt is opened. Various mechanical means are employed to permit manual release of the catch so that the bolt may be withdrawn from the receiver.

BULLET CORE—The material in a bullet confined by the bullet jacket. Most sporting bullets have lead cores while military bullets may have cores of different materials, depending upon the use for which they were designed.

CHANNEL IRON—A beam having two flanges projecting at right angles on one side of the web.

CUT-OFF—A device such as that found on an M1903 Springfield receiver which, when moved to each of three positions, will permit bolt manipulations on an unloaded rifle without follower interference, bolt removal, or normal bolt manipulation with a loaded magazine.

DUMDUM—An expanding bullet which causes excessive damage to animal tissue. The name comes from the British arsenal at Dumdum, India, where such projectiles were developed.

FALSE MUZZLE—A short section of barrel on the end of muzzle-loading rifles. It is used only for starting the lead projectile into the bore, being removed before the rifle is fired.

HANDLOADING PRESS—A lever-actuated machine into which tools can be fixed for performing the operations required in the handloading of ammunition. Operations include sizing of cases, bullet seating, primer seating, and crimping.

KEYHOLE—The oval-shaped hole made in a target by a tipped or a tumbling bullet. A stabilized bullet, of course, makes a round hole.

LOCK TIME—The time required for the lock mechanism of a firearm to function. This time is customarily measured from the release of the sear to the firing of the primer. The lock time of the M1903 Springfield rifle, for example, is approximately .007 second.

"Fall in the Rockies"—*Hans Kleiber*

It's time to Save the Game

Now, before game becomes even more scarce, is the time for action to preserve our wildlife. With more hunters in the field today, the decline may become steeper. The job of every true sportsman is clear: limit your bag, and join and support local and national organizations for game restoration and conservation.

FREE BOOKLET ABOUT TARGET SHOOTING

Write today for information on how to start a rifle club in your own community... how to teach your group to have more fun shooting a rifle... how they can win Ranger Shooting Emblems. No obligation. Address—Sportsmen's Service Bureau, Dept. A-2, Sporting Arms & Ammunition Manufacturers Institute, 343 Lexington Avenue, New York 16, New York.

BETTER THINGS FOR BETTER LIVING ...*THROUGH CHEMISTRY*

DU PONT

REG. U. S. PAT. OFF.

DU PONT SPORTING POWDERS

World-famous since 1802

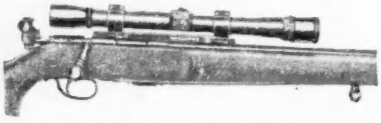
E. I. du Pont de Nemours & Co. (Inc.), *Explosives Department, Wilmington 98, Delaware*

. . . there's a

Williams QUICK-CONVERTIBLE Scope Mount

FOR YOUR RIFLE!

Whatever kind of rifle you have, there's a Williams Quick-Convertible, Bridge Type Scope Mount designed especially for it. For your big game rifle, your Williams Mount includes the auxiliary "ace-in-the-hole" peepsight. Remove scope and attach self centering sight, all without the use of tools. Williams Scope Mounts are designed by expert gunsmiths—each mount has proper ring spacing for perfect balance with minimum overhang—scope can be moved in rings for eye relief adjustment. There's nothing like it anywhere. Quick-Convertible, complete with peep sight—$17.50.



Williams Quick-Convertible Mount on Remington 513TR, 22 Caliber target rifle with K-2.5 Weaver Scope and Litschert Varmint Master. Note ring spacing gives maximum strength and minimum overhang. Williams Q.C. Mounts made for 22 caliber rifles without peepsight for $15.00.

Williams Quick-Convertible Mount on Remington 241, 22 caliber with K-2.5 Weaver—the only mount properly designed for this rifle. "Take down" does not interfere with mount. Rifle can be breech cleaned without touching sighting assembly or changing zero. Q.C. Mount without peepsight for $15.00.

SIDE MOUNTS, TOO!

Williams Quick-Detachable Side Mount made for top-ejecting, lever-action rifles (and some others). The Quick-Detachable, also available in top mounts, is removable in a flash with "push button" release—NO TOOLS $12.50

Write for Additional Literature

OTHER WILLIAMS PRODUCTS

White-centered "Dial Scoring" Targets—Sling Straps, including the new Williams Lightweight "Guide" model Carrying Strap—Sling Strap Swivels—Scopes—Sights—and other accessories carried in stock regularly.

Life Member—American Gunsmith Guild
Life Members—National Rifle Association

WILLIAMS GUN SHOP
INCORPORATED
ON THE RANGE
7387 Lapeer Rd., Davison, Mich.

Ricochets . . .

SHRAPNEL

Emmaus, Penn.

Editor:

In the January RIFLEMAN Charles A. Mason takes you to task for calling high explosive, demolition, fragmentation, etc. all "shrapnel." He also says that the idea was thought up by an officer in the U. S. Army and named after him.

Actually the inventor, Henry Shrapnel (1761-1842), was an English soldier and inventor, promoted to Lieutenant General in 1837.

R. A. WILSON

Wilmington, Del.

Editor:

Mr. Charles A. Mason is not only heartbroken and disillusioned but misinformed. When he gets technical with the RIFLEMAN, he also gets technical with some of its readers. Shrapnel was *not* an officer in the U. S. Army.

WILLIAM W. FREIHOFER

Georgetown, S. C.

Editor:

You let yourself in for a fall without taking one out of the reader who called your hand. Shrapnel, as I recollect, served all of his time in the British Army . . . And what's more, I believe your use of "shrapnel" could have been in good taste, as custom has decreed the word to about cover everything that busts nowadays.

THOMAS G. SAMWORTH

WAGON BOX FIGHT

Portland, Indiana

Editor:

Give my regards to Frank Triem for the article "The Wagon Box Fight," (RIFLEMAN, January). It's a classic. Please, more like it.

WILLIAM T. CORWIN

Wilmot, N. H.

Editor:

Rather large hands the man has, methinks. That "handful of terrified braves" that got away was a mere 2,300!!!

Red Cloud's "task force" was made up of . . . approximately 3,450 braves. This information was given by Red Cloud himself in later years

. . . The fight lasted over three hours, under almost constant attack, and the ammunition supply was all but exhausted when the attack ended. The Indian casualties in killed and wounded, by actual count and reports from Red Cloud later, was ELEVEN HUNDRED AND THIRTY-SEVEN. Which means that the 28 soldiers and 5 civilians who were alive when the fracas started accounted for an average of about 35 Indians each.

JOHN F. BAKER

Claverack, N. Y.

Editor:

. . . Red Cloud didn't lead the attack that day. Crazy Horse was the war chief, and Flying By was the principal chief in the party. Red Cloud went along, but he led only a small band of his own Oglalas.

Captain (Brevet Major) Powell stated that 60 Indians "must have" been killed, while some of the enlisted men put the figure up to 1,500, and estimated their attackers as high as 3,000. Actually, the best authority puts the number of Indians in the party at about 800 . . .The fact is that 6 Indians were killed and 6 wounded. Five of the bodies were not recovered (by the Indians) as they lay too close to the wagon box barricade. These 5 were the "good Indians scattered everywhere" that Mr. Triem mentions.

KENNETH H. MYNTER

New York, N. Y.

Editor:

That statement that Red Cloud was a keen student of firearms MIGHT be correct, but the same cannot be said for the man who wrote the story. In those days you did not ram "fresh powder and wad and bullet down the barrel." You grabbed a prepared cartridge, bit off its end and shoved the entire assembly down the barrel. And we'd been doing it for a century at least. I'm ashamed of you to have let this one get by.

GEORGE NORRIS

● *All of which points up the opinion of* RIFLEMAN *editors that a vast amount of research remains to be done (if it is not already too late) before we can have indisputable facts of our country's early Western history. —Ed.*

SIGHT APERTURES

Hanover, N. H.

Editor:

Mr. Livingston ("Sights for Shooter's Eyes," January RIFLEMAN) is dead right in advocating large rear sight apertures for hunting rifles—and I will raise him a couple of blue chips. For about 20 years I haven't used *any* aperture disk for hunting and plinking, just the nice big threaded hole the disks screw into. The important thing is to practice until the effect of having no rear sight at all doesn't bother you and you can concentrate on putting the bead where it belongs.

PAUL ST. GAUDENS

Springfield, Minn.

Editor:

The article on peep sights is very interesting, but? You state the openings are .218 on the large factory sights to .05 for target work. I don't know if we machinists understand the sizes. Are they decimals, machinists, or some other?

A. H. WILD

● *Decimals.—Ed.*

DENTAL PROBLEM

Gladwater, Texas

Editor:

I am curious to know how author Bill Adams gets five teeth spaced ¼ inch apart on a 1-inch wide tool (January, page 39).

BILL GOINS

● *One-eighth inch, that is.—Ed.*

HOW-TO-DO-IT

Waldoboro, Maine

Editor:

I know you can't please everyone but I have talked to numerous members and the consensus is that THE RIFLEMAN has not

(Continued on page 6)

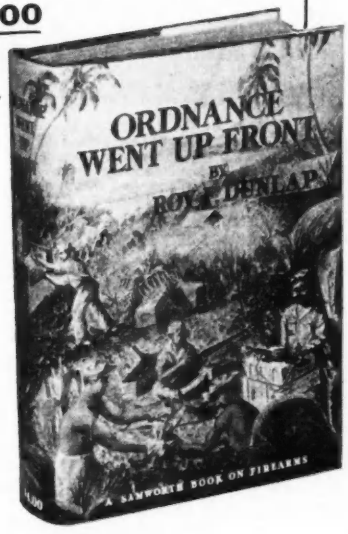
Another Great Samworth Book

in the "Riflemen in Combat" Series

ORDNANCE WENT UP FRONT

by Roy F. Dunlap

$4.00



You'll want this gunsmith's account of wartime gun work in the U. S. Army Ordnance . . . tells how to convert military rifles to sporting arms . . . and many other technical aspects of Allied and enemy small arms PLUS an interesting story of life in a war-time Ordnance outfit. A must title for every gun enthusiast.

A skilled rifleshot and gunsmith, Roy F. Dunlap managed to get in the Ordnance Department of the U. S. Army when he enlisted in 1942. In this book, Dunlap gives his readers an accurate and vivid picture of an Ordnanceman serving in the field, at times working directly back of the firing line.

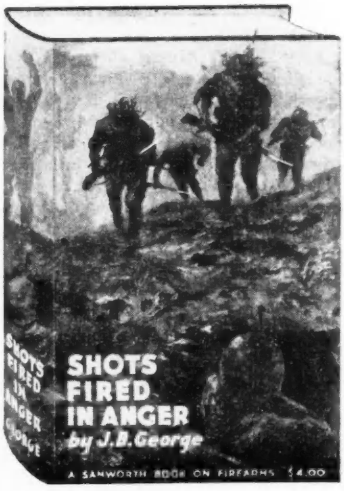
Detailed descriptions of scores of American and foreign makes of rifles, revolvers, pistols and machine guns and witty, candid sidelights of the haps and mishaps of a GI small arms ordnance worker are cleverly mingled. It is authoritative because it is first hand information by a shooter who knows and loves guns; one who had an unprecedented opportunity to observe and tinker with more models and types of fire-arms from more different nations than fell to the lot of almost any other gunworker alive.

His book will interest every amateur and professional gunsmith in America. It contains a great mass of essential and technical data on all of these military rifles and pistols which will be drifting into the gunshops of this hemisphere for the next two generations.

His extensive text ends with a practical chapter on the utilization and conversion of these various military rifles into sporting arms. An original and practical appendix presents a series of useful conversion tables for gunsmith and cartridge experimenters. Fully illustrated with plates and sketches.

THE TRUTH B'GOSH

Six different, vivid books will comprise this "Riflemen in Combat" Series and bring shooters the plain, unvarnished truth of Riflemen activities on various fronts in boths Wars—minus the eye-wash and whitewash of "Official Histories" okehed and (all too often) colored by "The Brass".



SHOTS FIRED IN ANGER

By Lt. Col. J. B. George

$4.00

This book, the first World War II title published in Samworth's "Riflemen in Combat" Series, covers Lt. Col. George's rifle shooting experiences and sniping ventures on Guadalcanal. Half of the text is in narrative form, giving a shot-by-shot account of his part in the Battle of Guadalcanal. He discusses riflemen training and tactics, then tells the actual stories of how he and fellow Infantrymen killed the enemy with rifles and other infantry weapons. George believes ardently in the traditions and all time glory of the foot soldier—and more than ever before he believes in accurate rifle fire.

Every American rifleman and every National Rifle Association member should read "Shots Fired in Anger". Aside from its entertainment worth, it contains much practical information valuable to the younger members of our shooting clan. Illustrated with paintings, drawings, and sketches made by Japanese in Japan under the supervision of Colonel George.

Real atmosphere for your home or club rooms . . . a full color Samworth Print on Firearms

A new, full color historical print, suitable for framing, reproduced from Gayle Hoskins' vivid painting, is one that every sportsman will want for den, gun room or rumpus room.

The scene shows Captain Nagle's Company of Pennsylvania Riflemen holding a shooting match at some country crossroads tavern in Berks County, early in the year 1775.

Reproduced in six colors, this print measures 25" x 17" plus generous margin space that assures flexibility in the size and style of frame selection by individual owners.

Pennsylvania Rifle Frolic — 1775
By GAYLE HOSKINS

$5.00

Published by

THOMAS G. SAMWORTH

Small Arms Technical Publishing Company
Georgetown 7, South Carolina
(Plantersville Post Office Discontinued)

SEND 3c STAMP FOR NEW 20 PAGE SAMWORTH CATALOG

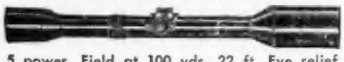
OMICRON Z-2 and Z-4

125% more field area! Central focusing, positive lock. Independent windage and elevation adjustments. Hard coated lenses.

Z-2: Magnification, 2½x. Field at 100 yds. 60 ft.! Eye relief 2¼" to 4". 1" tube dia. Wt. 10 oz. Length 9½". Objective dia. 24 mm. Eye lens dia. 36 mm. . . **$75.00**

Z-4: Magnification, 4x. Field at 100 yds. 42 ft.! Eye relief 2¼" to 4". 1" tube dia. Wt. 10½ oz. Length 10½". Objective dia. 24 mm. Eye lens dia. 36 mm. . . **$75.00**

OMICRON ZL-5



5 power. Field at 100 yds. 22 ft. Eye relief 3¾" to 6". 1" tube dia. Wt. 12½ oz. Length 15½". Objective dia. 45 mm. Eye lens dia. 36 mm. Luminosity 81. Hard coated lenses, independent elevation and windage adjustments . . . **$110.00**

VECTRA RIFLESCOPE, 2½ power.. $29.95
LEUPOLD RIFLESCOPE $57.50
WEAVER K-6 SCOPES $48.50
WEAVER K-4 SCOPES $45.00
WEAVER K-2.5 SCOPES $37.50
WEAVER J-4 SCOPES $27.50
WEAVER J-2.5 SCOPES $22.50
WEAVER G-6 SCOPES $12.50
WEAVER G-4 SCOPES ..... $ 9.75
G88 SCOPES, 2½ and 4½ power. $50.00
LYMAN ALASKAN SCOPES $60.00
TEXAN SCOPES $50.00

OBSERVATION SCOPES
Argus 20-power $74.50
Saturn 20-power $25.00

SCOPE MOUNTS
Echo $17.50
Griffin & Howe $25.00
Redfield Jr. . from $10.75 to $14.75
Stith Q.E.D. . from $12.00 to $17.50
Type U Weaver . . . . . $ 6.25
Tilden $16.50
King-Pike $17.50
Installation charge quoted on request

CUTTS COMPENSATORS . . . $18.50
(with choice of any two tubes)
Additional tubes, each . . . $ 3.00
Installation on plain barrels . $ 5.00
Installation on ventilated barrels $ 7.50

POLY CHOKES (installed) . . $14.75
Note: send barrel only

PFEIFER MADE
RIFLE BARREL BLANKS
UNTURNED OR PRETURNED

Furnished preturned in 3 sizes to give muzzle dimensions of .650, .750 and .890; 28 inches long at additional $2.50 net, each.

Calibers 22, 25, 270, 7 mm, 30, 35 and 375 are considered standard. One week delivery.

Calibers 40 and 45, special order, subject to delay. Special twists at no added charge.

Price $21.50, F.O.B. Beverly Hills, Calif.

SEND FOR PRICE LISTS

Latest price information on all loading equipment, gun supplies and accesories are now available. Drop us a note and we will send them to you promptly.

GUN INQUIRIES INVITED

We carry the largest stock of new and used guns on the West Coast. Write us about any type of gun in which you are interested.

Discount to dealers and gunsmiths

CUSTOM BARREL SERVICE
featuring Pfeifer barrels

Springfield, Enfield, Mauser, etc. Rebarreling in following calibers: 30-06, .270 Win., .22/250, .257 Roberts, .300 H&H mag., .35 Whealan, 30-40 Krag, .220 Swift, etc. Installed, blued and turned to customer specification **$55.00**

CRAMER LUBRICATOR AND SIZER

Cast of Meehanite. Ideal for hard bullet metals such as Type metal or Kirksite A. Grease reservoir operates under 300 lbs. pressure, enabling user to size many bullets with one pressure setting (approx. 35 bullets of .38 cal.). All dies are hardened, inside surfaces micro-finished **$17.50**

CRAMER BULLET MOULDS

Available in following calibers: 22, 25, 270, 7 m/m, 30, 8 m/m, 35, 38 Spl., 45 ACP, in two cavity moulds. 3, 5, or 10 cavity moulds on special order subject to short delay.

2 cavity.. $10.50 5 cavity.. $22.50
3 cavity.. $12.50 10 cavity.. $50.00

CRAMER PRESSURE LEAD DIPPER..$ 2.50
CRAMER BIG DIPPER.....$ 1.25
CRAMER 3-pc. MELTING POT ... $ 7.50

SAECO TRU-SPEED PRECISION POWDER MEASURE

Adjustable Rifle Model **$12.50**
Adjustable Pistol Model **$12.50**
Extra Drum to combine above . . **$ 4.00**
Bench Stand . . . . . **$ 3.25**

POTTER ELECTRIC FURNACES
Model C single element, 450 unit . **$15.00**
Model D double unit, 750 watt, for use with 3-cavity and larger moulds . . . **$19.50**

PRIMERS (Winchester)
Available in following sizes: 108, 111, 115, 116 and 120 . . . per thousand **$ 6.30**

4-GUN PISTOL CASE
Sturdy leatherette covered plywood. Lock and full-length piano hinge. Velvet-lined tray and barrel rest. 2 colors: medium or dark brown. Space for ammunition and 13½" spotting scope **$24.50**

O'Dell's Scope Mount for pistol cases, $4.50

KERR'S
The BEST of Everything for the Sportsman

9582 Wilshire Blvd., Beverly Hills, California

(Continued from page 4)

changed for the better. Please try to give us a little more on "how to do it."

EDMUND H. MCGRATH

● RIFLEMAN *readers can look forward to plenty of "how-to-do-it" articles in future issues. Charles Golueke's picture story on altering bolt handles is a sample. Future issues will contain, among others, articles on remodeling the Springfield, making pistol stocks, plenty of other home workshop projects for the winter months.—Ed.*

JUMP-SHOOTING'S JOYS

Karnack, Texas

Editor:

I enjoyed very much Mr. Nash Buckingham's article on "jump shooting" in January RIFLEMAN.

I have used the same methods of hunting in this area, which comprises Caddo Lake and the many small lakes, creeks, and three cypress rivers that enter it. I note Mr. Buckingham ties his paddle to the boat for quick action when flushing game. For the same purpose I carry an extra paddle so I may drop at once the one I'm using when game is flushed, and use the extra paddle to pick it and game up later.

WYATT A. MOORE

Highland Park, Ill.

Editor:

Buckingham's "Jump Shooting's Joys" in the January issue sure starts the new year out right. It's timely and most appropriate for the benefit of our members—no matter what their meat is. Buckingham knows whereof he speaks. He's a been-there big gun—who's seen the game here—and seen it go. Without sufficient game to hunt, our national interest in shooting, no matter what form, will go by the boards. Let's hope the "easy ridin' boys" will heed the handwriting on the wall.

JIM WHITE

GRIZZLY . . . KODIAK?

Seattle, Wash.

Editor:

I know Hosea Sarber. Bought a hunting license from him in 1944; been in his office in Petersburg; seen some of his many trophies; and handled a few of his superbly-built rifles. His checkering, inletting of ivory, and beautiful precision work is among the best. Mr. Sarber's prowess as a hunter of big bears is well known among all Alaskans and none of the material about Mr. Sarber ("Self-Loaded Gunnerman," February) is out of line. But, why doesn't Mr. Taber get his nomenclature of bears correct? A brown bear is not a grizzly, and a grizzly is not a Kodiak brown bear.

Page 12, left column, he writes "giant brown bear." A little lower in the paragraph it turns into "base of the grizzly's neck." Same page, righthand column, "giant Kodiak, a grizzly or Alaskan brown bear." Every Alaskan sportsman worthy of the name knows a giant Kodiak and Alaskan brown bear are the same. Page 12, second column, it's "brownie" again. Lower down, he makes Mr. Sarber say, "At times like this a grizzly is really dangerous," meaning the same bear.

What's wrong with the Editor of THE RIFLEMAN, letting these get by?

BERNHARDT E. MATHSEN

● *Oops!—Ed.*

Accept This Special Pre-Publication Offer* on the First and Only Sporting Book of Its Kind Ever Published in America

The HUNTER'S ENCYCLOPEDIA

SPECIAL FOR SHOOTERS
The only book that contains a simplified trajectory chart for all rifle calibers and loads, and average patterns for all shotgun gauges and borings.

AT LAST... in one indispensable, lavishly illustrated volume, the complete and latest facts on everything the hunter needs to know!

"Fresh and exciting as a frosty dawn" is what everyone is saying who has watched this grand volume taking shape after many months of preparation by the most outstanding group of hunting experts ever brought together. For the first time a single book, every page of which is new and original, puts complete, accurate facts about every phase of the sport at the hunter's fingertips, and opens up all of North America as his happy hunting ground. It is a big, beautiful book and one every delighted owner is going to enjoy reading, as well as consulting in season and out as *the* authoritative reference on the sport.

ANSWERS ALL QUESTIONS

Whether you hunt rabbits or Kodiak bear; whether you hunt with a rifle, a shotgun, a handgun, bow and arrow or a falcon, THE HUNTER'S ENCYCLOPEDIA can add to your skill and your fun with facts and advice and all manner of fascinating hunting lore. It gives you the habitat, characteristics, breeding and feeding habits and range of every game bird and animal in Alaska, Canada, the United States, Mexico, and tells how to hunt each one. It shows you improved shooting techniques, tips on how to train your dogs, plan your hunting day, select equipment and the proper weapon and ammunition for each kind of game. In fact, THE HUNTER'S ENCYCLOPEDIA gives you the right answer to every hunting question you are likely to ask. NOTE: This volume will be followed by THE FISHERMAN'S ENCYCLOPEDIA. Watch for it.

VALUABLE FEATURES

1000 informative pages written especially for this volume.

1000 photographs, action drawings, diagrams, maps.

SCORES of original, full-color paintings by foremost North American wild life artists.

SPECIAL PHOTOGRAPHS of every kind of hunting dog with information on how to breed, train and use each one best.

ILLUSTRATIONS of every known type of hunting gun, and how and when to use each one.

EXTRA SECTIONS with complete, up-to-the-minute information on outdoor living under all conditions.

THESE FAMOUS OUTDOOR AUTHORITIES COLLABORATED IN PRODUCING THE HUNTER'S ENCYCLOPEDIA

Editor

RAYMOND R. CAMP
Rod and Gun Editor, *N. Y. Times*

Advisory Board

NASH BUCKINGHAM, Chairman
Noted author, hunter, field trial judge and Vice Pres. of Tenn. Conservation League

ARCHIBALD RUTLEDGE
Well-known writer and authority on hunting.

CAPT. PHILIP B. SHARPE
Noted Firearms Expert

BOB BECKER
Editor, Outdoorsman Magazine

DR. IRA N. GABRIELSON
Pres., Wildlife Mgmt. Inst.

FRANK DUFRESNE
Chief, Div. of Information, U. S. Fish and Wildlife Service

J. HAMMOND BROWN
Exec. Dir., Outdoor Writers Association of America

SETH GORDON
Executive Director, Pennsylvania Game Commission

Contributors

Over fifty organizations and hundreds of authorities on special phases of the sport in every part of the country have contributed their expert knowledge and experience to this volume.

AMONG THE MAJOR TOPICS COVERED IN DETAIL

BIG and SMALL GAME—Goat, Javelina, Buffalo, Rabbits . . . every kind.

PREDATORS—Wolves, Fox, Cougar, Coyote, and all Winged Predators.

BIRDS—Pheasants, Turkey, Doves, Woodcock, etc.

WATERFOWL—Geese, Brant, Shorebirds, etc.

SHOOTING ARMS—All Calibers, Loads, Gauges, Borings for Rifles, Shotguns, Handguns.

ARCHERY—Hunting and Target Methods and Techniques.

FALCONRY—How to Capture, Train and Use to Hunt Game.

DOGS—How to Raise, Train, and Use Every Hunting Dog.

CAMPING, OUTFITTING, WOODCRAFT, OUTDOOR COOKERY—Probably the most complete information ever assembled on these topics.

SKEET and TRAP—How to Shoot, How to Improve Score, Records, etc.

MISCELLANY—Complete Game Survey, Conservation Practices, Photography, Record Heads, Taxidermy, Forestry, Bounties, etc.

*SAVE $5 BY ORDERING NOW

Overwhelming response to news of this book's forthcoming publication has repeatedly forced us to increase our print order for the first edition, delaying publication to on, or about, May 27th.

The special pre-publication price of this book is $12.50. The price after publication will be $17.50. You save $5.00 by ordering before that time. We urge you, however, to order at once because we fully expect the first printing to be sold out weeks in advance. You will receive a numbered certificate, acknowledging your order and guaranteeing delivery of your copy of the first edition.

To take advantage of the pre-publication price, mail this coupon now.

YOURS WITH A MONEY-BACK GUARANTEE

STACKPOLE & HECK, INC. A-4
The Telegraph Press Bldg., Harrisburg, Pa.

Gentlemen: I accept your pre-publication offer and enclose $12.50 for which please send me on publication day a copy of THE HUNTER'S ENCYCLOPEDIA. I understand that the price will be $17.50 after publication. You will acknowledge my order with a numbered certificate. If I return the book in good condition within 10 days after receiving it, my money will be refunded.

Name_____

Address_____

City_____ Zone____ State_____

Yes, sir! A .22 caliber rifle and a Mossberg scope are "naturals" together. Scope aids the eye, brings the target up big and clear, easy to hit. And scope shooting is great fun! Mossberg Internal Adjustment Telescope Sights fit most makes of .22 caliber rifle.

Illustrated: Mossberg 4-power scope model #5M4. Note low mount. Model #8M4 is identical except for high mount. Each $9.95.

SPECIAL
for Mossberg Automatic
Model #151M

Mossberg 4-power Internal Adjustment Scope #4M4 fits dovetail grooves in the receiver of the rifle to give the sturdiest mounting ever devised—another Mossberg exclusive feature.

SEE THEM AT YOUR DEALERS
Send for FREE descriptive folder. No sales at factory.

O. F. Mossberg & SONS, INC.

82503 St. John Street, New Haven 5, Conn.

Incidentally . . .

We've never before published an annual report of the NRA . . . that "summary of progress" prepared, primarily, for the yearly get-together of the Association's 60-odd directors. This year, however, we are making an exception. When Executive-Director Lister began to think about that report of his, months ago, he dug up some interesting figures . . . interesting, and a little startling. About 225,000 of our members, he found, were unacquainted with the NRA at the start of the war. The same is true of most of our club officers. On the face of it, that may not seem important. But the Association is an old one . . . an "institution," founded in 1871 . . . and that figure means that the majority of our members know little or nothing of the background of the NRA . . . where it came from, who started it . . . why . . . and exactly what it was supposed to accomplish.

So, headlining this issue, we're taking the cue from Executive Director Lister's annual report, and bringing you a condensation of the first part . . . that section which brings us up to date on a lot of things we may have forgotten about the background of organized shooting in America.

To the old timers this is going to be a repetition of events they know at first hand . . . events that some of them took part in. But to the majority of the shooters of America . . . the "new generation," it provides the answers to many things they may have wondered about. "Creedmoor," for instance. How did the word get into shooting lingo? How did our targets originate? Who started the organization of shooting in the first place? These are all pertinent questions, and the Lister report gives the answers.

☆ ☆ ☆

We're going even further in this issue in trying to bring NRA members closer to the tradition and history of shooting. We've mentioned before in this column the International Matches of 1874-5-6 . . . the almost-forgotten beginnings of competitive sport among English-speaking nations. Those matches are interesting to the old-gun fan, of course, and to the antiquarian . . . but their importance to shooting as a whole has almost been lost in the 20th Century scramble for progress. That progress would not have been possible had it not been for the Internationals of three-quarters of a century ago. They gave organized shooting its first great impetus in this country . . . an impetus which is just now bearing fruit in an Association which has outgrown the wildest dreams of the men who started planning for "a Nation of Riflemen" so many decades ago. That pleasant fancy . . . a nation of riflemen . . . is still not a reality, but we are far closer to it than ever before. Our indebtedness to an almost-forgotten group of men is symbolized by today's NRA. So we're publishing, too, the story of those first International Matches . . . by Ned Roberts, revered author of *The Muzzle-Loading Cap Lock Rifle.*

☆ ☆ ☆

Next month, to complete the story, there will be a final installment of Executive-Director Lister's report . . . the present, and some hints of the foreseeable future.

We're at an enviable point now, with shooting more and more taking its place as a major U. S. sport . . . daily gaining new converts . . . strengthening its position in almost every respect. But that very growth imposes new difficulties . . . new pitfalls undreamed of by the founders. Knowing the background, we feel, may help in solving the new and bigger problems brought on by shooting's Coming of Age.

And incidentally, if you'd like a copy of the complete Annual Report . . . with its detailed history of the NRA . . . drop us a card. We'll be glad to send you one. It makes good reading . . . twenty-four pages of NRA facts, in far greater detail than we could print them in this issue of the RIFLEMAN. Also, the history could be mighty handy next time you're called on for a talk at the club dinner, or need some material on shooting for the local press.—J.S.

COVER

Drenched in the weird glow of a lens-coating machine, owner C. W. Galbreath of the Optical Coating Laboratory, Clinton, Md., watches as magnesium fluoride is deposited on a rackful of scope-sight lenses. When the bits of polished glass show the correct color, as revealed by the light of the fluorescent lamp he holds, the process will be stopped. For the details of this newest of optical magic, see "Those Coated Lenses," this issue. The Kodachrome was taken by RIFLEMAN staff photographer Richard Reish with a Speed Graphic, utilizing existing light. Exposure was f.8 at 20 seconds.

PUBLISHED MONTHLY BY THE NATIONAL RIFLE ASSOCIATION OF AMERICA, 1600 RHODE ISLAND AVENUE, WASHINGTON 6, D. C. DOMESTIC RATES (NORTH, SOUTH, AND CENTRAL AMERICA) $3.00 A YEAR, $5.00 FOR TWO YEARS; ELSEWHERE, $3.60 A YEAR, $6.50 FOR TWO YEARS. ENTERED AS SECOND-CLASS MATTER, APRIL 1, 1908, AT THE POST OFFICE AT WASHINGTON, D. C., UNDER ACT OF MARCH 3, 1879. COPYRIGHT, 1948, NATIONAL RIFLE ASSOCIATION OF AMERICA. ALL RIGHTS RESERVED. FOR CHANGE OF ADDRESS, GIVE BOTH NEW AND OLD ADDRESS AS THE LATTER APPEARS ON ADDRESS LABEL

The AMERICAN RIFLEMAN

Official Journal of the National Rifle Association of America

1600 RHODE ISLAND AVENUE, N.W., WASHINGTON 6, D. C.

VOLUME 96 NUMBER 3

MARCH 1948

Passion for Crisis 10
AN EDITORIAL

The NRA: 1871-1919 11

Something New! 15
BY HATCHER AND BARR

Long Range Rifles 18
BY N. H. ROBERTS

Olympic News 22

Deerslayer's Gun 23
BY WALTER RODGERS

Britain's Newest Service Rifles 26
BY WILLIAM PIZNAK

This Business of Bolt Handles 30
BY CHARLES GOLUEKE

"Olympic" Targets 33

Those Coated Lenses 35
BY DEAN A. LYON

Ruffed Grouse Frustration 39
BY M. AUGUSTUS WHITEHEAD

Well, I'll Be Darned! 41
BY WALTER ROPER

Report from the DCM 43

Stith's New Master Mount 44
A DOPE BAG "REVIEW"

Old Coach 45

Spotting Scope 46

☆ ☆ ☆

C. B. LISTER, *Editor*

JOHN SCOFIELD, *Managing Editor*

J. S. HATCHER, *Technical Editor*

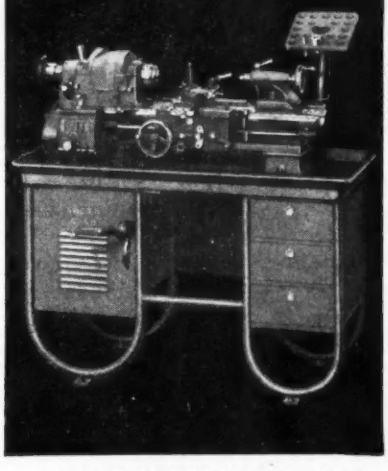
J. A. HARPER, *Associate Editor* R. J. STANN, *Associate Editor*

L. Q. BRADLEY, *Circulation* F. A. MOULTON, *Advertising*

J. T. BERRYMAN, *Art* P. B. CARDINAL, *News* R. L. REISH, *Photography*

SOUTH BEND

10" TOOLROOM LATHE



Catalog No. 8187-YS—10"x 3'—1"collet capacity Bench Lathe with handwheel collet attachment; collet rack; taper attachment; micrometer carriage stop; thread dial; steel bench; three phase, sixty cycle, 220 volt motor; and drum control switch—as illustrated. $1196.60

Ideal for Gunsmiths

Here's the lathe with the capacity, accuracy and versatility that you need for gunwork.

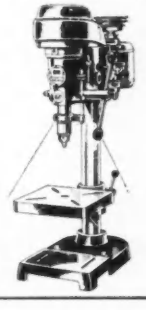
Its 1" maximum collet capacity and 1⅜" spindle bore permit chucking gun barrels and similar work for facing, boring, threading, etc. And the 10⅛" swing over bed and saddle wings is adequate for practically every gunsmith job.

Milling and keyseating can be done on this lathe when it is equipped with a South Bend Milling Attachment. A powerful grinding attachment is available for grinding hardened parts, sharpening reamers and cutters, etc. Other practical attachments permit an exceedingly wide range of operations.

NEW 14 INCH DRILL PRESS

A ruggedly built tool unsurpassed for accuracy, ease of operation and dependable performance. Features free-floating spindle, precision ball bearings, quick-acting belt tension release, etc.

Bench model • $98
Floor model • $113
(f.o.b. factory, less motor)



SOUTH BEND LATHE WORKS

Building Better Tools Since 1906

452 E. MADISON ST., SOUTH BEND 22, IND.

PASSION FOR CRISIS

"*Crisis.* A turning point; a point in illness at which the patient becomes definitely better or worse; an emergency.
"*Problem.* A question for solution; a difficult matter requiring settlement."—*Webster's New American Dictionary.*

Respectfully, we urge upon all American politicians, newspaper columnists, and radio commentators careful study of these two simple definitions. Any ordinary citizen, asked to define these words, would say exactly what the dictionary says. But only a few of our political speech-makers, columnists, and commentators, judging from their current verbal output, have read the dictionary. Or have they?

We have worried a great deal about the ideology of Communism, of Fascism, of Nazi-ism. Perhaps we should awaken to the fact that the rise to power of each of these was based on the fundamental ideology of crisis-ism! To the average citizen a *crisis* is a far different thing, a far more serious thing, than a *problem*. Man, the individual, and Man, the race, accept the inevitability of problems. They must be faced and solved day after day, year after year. But a crisis! That is something different! That is something that calls for the attention of the specialist. That is something demanding immediate action, drastic action. The patient may die anyhow, so move fast! He can't be any *worse* off and maybe we can save him by emergency action. The surgery may be deep but we must save his life now—we can put him back into something resembling his original shape after the *crisis* has passed. Crisis! Magic word—boon companion to the old political saw, "If you can't convince 'em, confuse 'em."

Crime has been a *problem* among men through all history. Why does crime become a *crisis* every time somebody decides to press an antigun law through Congress? Clashes of religious, economic, and political theory have been a problem among men through all history. Famine, plague, the economic wastage of war have ever posed grave problems for man to solve. Communities, even nations, facing *real* crisis have sometimes died—but Man has moved forward. He has moved forward solving his problems, each generation in its own fashion. Each generation thinking that its problems were unique, strangely blind to the fact that the *crisis* of today is usually but the *problem* solved yesteryear.

America does face grave problems. She has faced graver problems in the past. There was more of *crisis* in the Monroe Doctrine than in the Marshall Plan—more risk in maintaining a squadron in the Mediterranean in 1804 than in 1948.

The gravity of our problems we must frankly admit, calmly study, and intelligently solve—nor unnecessarily waste time in the process. But this is a far cry from the din of *crisis* that presses so insistently into our ears from political rostrum, editorial page, and radio loudspeaker.

Government by crisis is inevitably chaotic. Granted its powers to meet a crisis, it must find new crises to retain those powers.

"Crisis-ism" is the father—whether by accident or design—of Communism, Fascism, Nazi-ism, and every other catch-phrase designating Dictatorship. Please, gentlemen of the law, the press, the radio, and the political rostrum, may we get on with an intelligent study and quick solution of our *problems* and stop crying, "Wolf, wolf," to the point where the villagers may refuse to grab their pitch-forks when they are *really* needed?

C. B. Lister

THE BACKGROUND OF YOUR ASSOCIATION . . . CONDENSED FROM EXECUTIVE DIRECTOR LISTER'S ANNUAL REPORT TO THE NRA

Part I: 1871-1919

NATIONAL RIFLE ASSOCIATION OF AMERICA

ANNUAL REPORT

OF THE EXECUTIVE DIRECTOR AND SECRETARY TO THE BOARD OF DIRECTORS FOR THE CALENDAR YEAR

1947

CHALLENGING AND STARTLING IS the fact that of nearly 300,000 senior members on our rolls at year-end 1947, approximately 225,000 were unacquainted with the Association when Japanese bombs fell on Pearl Harbor. Less than half of the 5,500 club secretaries and junior leaders who were conducting club affairs at the end of 1947 were club officials when the war put a stop to normal club operations.

Urgent, indeed, is the need for education of this majority group of our members and club officials as to the history, traditions, purposes, and program of the Association. To that purpose this report is largely dedicated — outlining the events leading to the formation of the NRA, and to the subsequent development of organized target shooting.

1620 Fond tradition notwithstanding, the earliest American colonists were not expert riflemen. Spanish, French, Dutch, and English military were armed with the cumbersome smoothbores of the period. Civilian colonists brought fowling pieces and ill-made military muskets.

1700 The first of the German and Swiss immigrants, coming into New York and Pennsylvania, brought the rifle to America. Slow to load, using much lead and powder for each shot, excessively heavy, the German rifle was almost entirely unsuited to the needs of the American frontiersman who must travel light if he would travel at all. But one quality appealed to the man whose life must frequently depend on his gun—its accuracy meant sure kills and a minimum expenditure of lead and powder. So, sired by the German rifle, mothered by Necessity, the "Kentucky" rifle was born — and with it the tradition of American marksmanship.

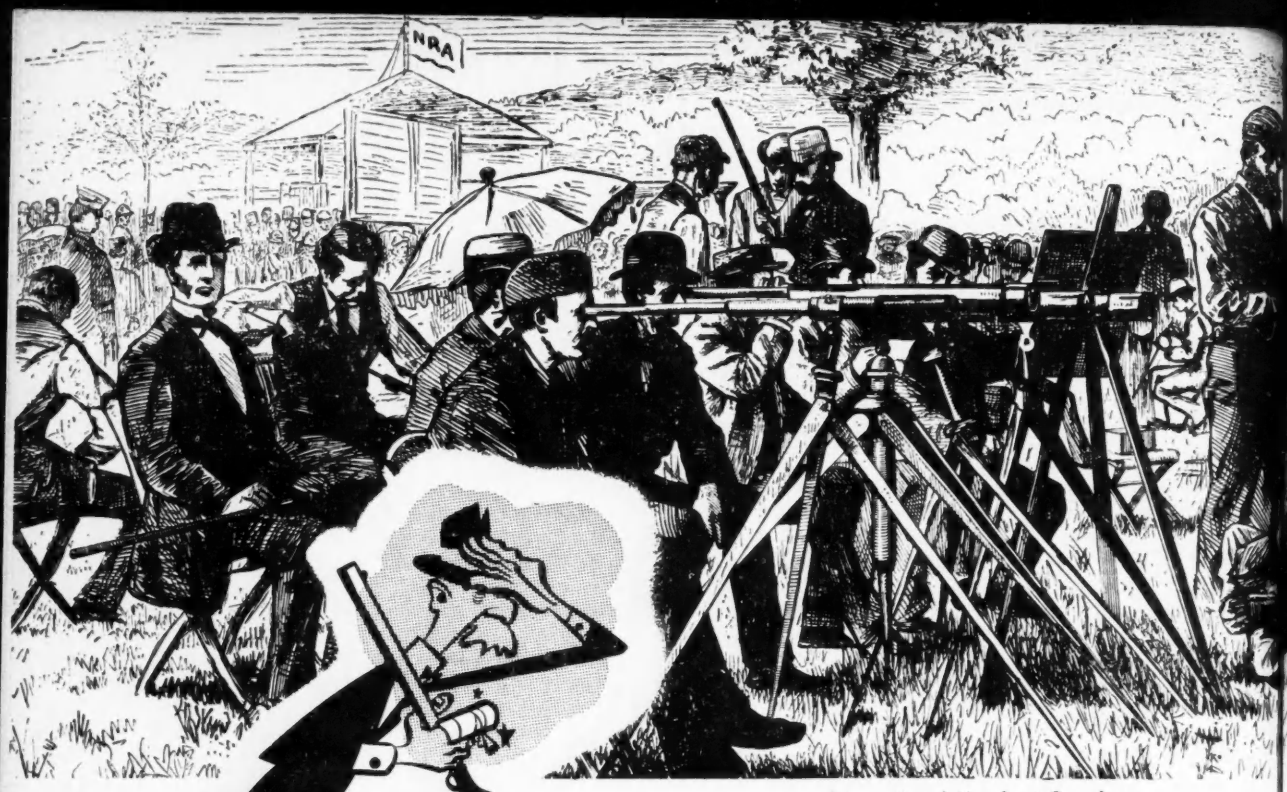
1850 The 19th Century immigration to America brought thousands of rifle-conscious German and Swiss mechanics, merchants, farmers. Much given to organization and regulation, they set up here the type of rifle club they had known in Europe. The "Schuetzenverein" became the recreational center for many an American community. Records are hazy. Much research needs to be done as to the Where, When, and What of these earliest American target shooting groups. In 1854, in the frontier town of New Braunfels, Texas, a "Scheutzen" club was organized. It now stands, as far as we know, as the oldest American rifle club still in operation.

Paralleling the Scheutzen clubs but lacking their nation-wide organization, other target shooting groups, using American custom-built weapons, were scattered around the country. Experimentally minded, they devoted much time to bench-rest and machine-rest shooting, searching for improved bullet design, sights, rifling, and ignition methods. Scores made on ring targets were of not so much interest as the measurement of the smallest groups by "string measure" or by micrometer measurements between widest shots. An expensive pastime, such clubs generally attracted the reasonably-well-to-do professional and business men of the larger cities. Many were officers in local National Guard organizations. Many served in the Civil War. Many determined then that the tradition of American marksmanship was indeed *only* romantic tradition.

1871 One such National Guardsman was Colonel William C. Church, editor of the *Army-Navy Journal,* then published in New York City. On August 12 he editorialized —

> "An association should be organized in this city to promote and encourage rifle-shooting on a scientific basis. The National Guard is today too slow in getting about this reform. Private enterprise must take up the matter and push it into life. We would suggest that a meeting of those favorable to such a project be called . . . The subject has already been presented to several enterprising officers and ex-officers of the National Guard."

Action came quickly. An informal meeting held in the *Army-Navy Journal* offices on September 4 elected Colonel Fred A. Mason, 13th N. Y. Infantry Regiment, chairman of an organizing committee. Many names familiar to all but the latest two generations of riflemen appear on the committee — Major General John B. Woodward; Brigadiers Augustus Funk and Thomas S. Dakin; Colonels Church, Rockafellow, Shaw; Major Smith; Captains Bird W. Spencer and George W. Wingate; Adjutant Harding.



International Match at Creedmoor

On November 24, the Secretary of the State of New York approved the charter of the National Rifle Association. First President was General A. E. Burnside with Captain Wingate serving as Secretary.

Earnest men with a serious purpose — some wealthy, most in the average professional and business brackets — the group represented considerable political potential. Before the New York State Legislature had adjourned its 1871 session, it had passed a bill authorizing the infant association to purchase a range site, construct and operate a range. The State would appropriate $25,000 if the National Rifle Association contributed not less than $5,000. The cities of New York and Brooklyn also were authorized to contribute $5,000 each.

The Long Island Railroad was under construction. Looking for sources of passenger and freight revenue the Poppenheusens, builders of the railroad, quickly made a very reasonable price on the piece of moorland along the right-of-way known as the old Creed farm.

"Creedmoor," first American rifle range equipped for long range firing, was born!

1872 The indefatigable Wingate, finding "no book of instruction available for rifle practice," wrote one "based on the English works on the subject, with ideas taken from the French and German systems."

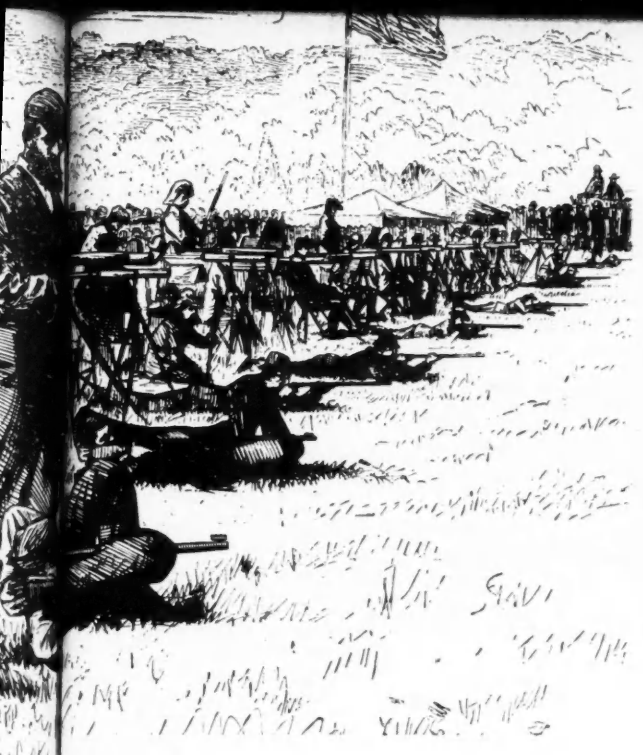
1873 On June 21, a regimental team match formally opened the Creedmoor Range. Teams from nine New York regiments, the 2nd New Jersey, a team from Regular troops stationed at Governor's Island, and the 2nd U. S. Engineers competed in these first matches at Creedmoor.

1874 Unexpectedly, a "break" came which gave organized target shooting the spotlight of national interest. Winning the Elcho Shield and the long range championship of Great Britain in 1873, the Irish Team sought new worlds to conquer. Unaware of the existence of the infant NRA, a challenge for a match against America was dispatched by the Irish to the New York *Herald*. A stake of $500.00 a side was to be posted—eight men to a team, fifteen shots per man at each range, 800, 900, and 1,000 yards. Miffed at not being directly approached, the NRA did not officially recognize the challenge. Wingate, however, was president of the Amateur Rifle Club, one of the first "civilian" clubs organized under the NRA. And, although none of its sixty-two members had ever fired beyond 600 yards, there were some Irishmen in the club—and they accepted the challenge.

Fired on September 26, the day-long contest was nerve wracking. Newspapers had given it a long build-up. Scores were telegraphed to New York and posted on public bulletins as each man fired. The Long Island Railroad did a constantly increasing business as the day advanced, and the road to Creedmoor was busy with fast-stepping spans drawing carriages and carry-alls to the torridly hot range. Five thousand people were crowded behind the firing point when the American anchorman, Colonel John Bodine, with blood dripping from his trigger-hand cut during lunch on a broken pop-bottle, squeezed off his last shot. Here was drama! If he hit the target at all America would win the match. Endless time passed between the roar of the black-powder rifle and the thud of the big, slow, lead bullet against the cast-iron target. Then the white marking disc signalled a five. Final score—America 934, Ireland 931.

Target shooting as an organized sport was on its way.

1882 Pressing constantly for improved military arms no less than for improved training methods, the NRA decided to attempt arrangement of an international militar



match with England. Loss to England would dramatize the relatively poor quality of the American Army rifle. If unexpected victory came to the Americans something would have been learned about technique of long-range shooting with the Army weapon and the urge for improved accuracy would have been created anyhow. Britain sent a military team to Creedmoor and the match began on September 14, at 200, 500, 600, 800, 900, and 1,000 yards—teams of twelve, seven shots per man at each distance. The British led at all ranges, winning by 70 points over a good, well-known, American team. The fault lay in the army rifle and the object lesson was complete. Consistently since, the NRA has continued the policy of open competitions to stimulate the development of military small arms.

1885 In May, NRA member A. C. Gould (Ralph Greenwood) published the first issue of *The Rifle* from Boston. It was an eight-page magazine and featured a list of American shooting associations.

The Rifle, not then connected with the NRA, conducted a poll in the effort to encourage standardization of a 200-yard match-rifle target. Published were illustrations and dimensions of all targets then in use by well-known groups. Forty-three clubs with a combined membership of 1,951 replied to the poll. Twenty-four clubs with 1,161 members voted for the Hinman target and for the name "Standard American Target." Though no longer used for rifle competition, this target is today the "Standard American Pistol Target," used for all official competition with pistols and revolvers at 50 yards and the basic target from which are figured the dimensions of all pistol targets for shorter range firing. Two exceptions are the Army "L" target, not used for competitive firing, and the European 50-meter target occasionally used in America for "Free Pistol" matches and for international team tryouts.

1891 A new generation of New York guardsmen was chafing at the Creedmoor arrangements. Senseless jealousies brought silly frictions, and in this year the break came. Tired of bickering, disgusted with the lack of appreciation for what had been accomplished for the benefit of the National Guard, the Directors of the Association transferred back to the State title to the Creedmoor range property.

It was the end of an era. Never again would the NRA be tied to any one State, to the promotion of shooting on any one range. The Association would become national in fact as well as in name, or it would cease to exist.

1892 New Jersey had completed its State Range at Sea Girt. The Captain Bird W. Spencer who had sat in the original organization meeting of the NRA in the *Army-Navy Journal* offices was now Brigadier General, Inspector General of Rifle Practice in New Jersey. He promptly offered the modern facilities at Sea Girt to the NRA if the Association's matches would be included as a part of the Annual New Jersey State Championships.

Oddly, General Wingate, prophet of rifle shooting promotion, intelligent promoter, respected jurist, failed completely to recognize the enlarged opportunities presented to the NRA by the new order of things. Creedmoor, child of his enthusiasm, was gone. Association trophies, already gathering tradition, were in the hands of the New Jersey association who would see that they were annually placed in competition. What was left for the National Association to do? A "final meeting" of the Board was held on June 16. The offices in New York were closed, the records placed in the Seventh Regiment Armory for safe keeping.

But the Association had done its work too well to quit now. It had created disciples of rifle practice. They were not on the old Board but they were the products of the work of that Board. They were in many States. They were in the Regular Services, the National Guard and in civilian clubs. Lacking national leadership they went their separate ways for a while. The Spanish-American War occupied their time and their attention. It spotlighted vividly, tragically sometimes, the poor equipment, poor training in rifle marksmanship of Regulars, Guardsmen, and Volunteers. It brought men from many States into close contact for the first time.

1899 Fighting had barely ended in Cuba—was still a rugged business in the Philippines—when these younger disciples of the rifle shooting game began planning to reorganize the Association on a real national basis. Popular interest in shooting had, as usual, been aroused by the war and political support is born of popular support. Former National Guardsmen occupied important posts on Senate and House Committees in the Congress. The reorganizing group decided that, to avoid another "boom and bust" in shooting interest, official interest and official support must be forthcoming from the government of the United States. Matters must no longer be left on a basis where inter-state rivalries might disrupt a continuing national program of marksmanship promotion.

General Wingate

In a two-year campaign which was a marvel of political acumen as well as of determination and unselfish hard work, Congress was convinced that an adequate system of small arms training for Regulars, National Guardsmen and civilians of military age was an essential part of our defense program.

1901 By Act of Congress, the Secretary of War was directed to establish the National Board for the Promotion of Rifle Practice. The Board was to include repre-

sentatives of the Regular Services, the National Guard and the National Rifle Association. Annual small arms competitions were to be held. Expenses of Regular and Guard teams were to be paid. National Trophies, for which funds were appropriated by Congress, were to be awarded in certain competitions, but the annual championships of the National Rifle Association of America were to be considered a part of the National Match program and the NRA trophies were to be awarded along with the National Trophies. Here, at last, was official recognition of a character that the founders of the Association may have dreamed of but never had hoped to obtain.

1902 General Spencer was elected President of the Association and Lieutenant Albert S. Jones became Secretary. As always, war had set a new generation in the saddle. A new idea dominated the nation's riflemen and the NRA. That idea was that the rifle shooting world revolved around the National Matches—that the development of techniques, men, rifles and ammunition to win the National Matches was the Alpha and the Omega of rifle marksmanship.

1903 The first National Matches were held at Sea Girt beginning September 2. Paper targets mounted on sash-type frames had supplanted the painted cast-iron targets which had initiated the earlier era at Creedmoor—but target dimensions were the same as those adopted in 1875. There was one difference. They were now known as the Army's "A," "B" and "C" targets. No one remembered that they were, in fact, NRA Creedmoor designs.

As had been true at Creedmoor the Regulars fared badly in that first National Match at Sea Girt. Results in the National Team Match showed the New York National Guard winning by 86 points over New Jersey. The Marine Corps and the Army finished sixth and seventh, respectively, with the Navy thirteenth in the field of fifteen entries.

Now there was both an official reason and official encouragement for learning to shoot well enough to make a good showing in the annual matches. The regulars were unabashed and sought advice from the National Guard and civilian competitors. They even borrowed ammunition and rifles. They were enthusiasts, so they developed fast friendships with the Guardsmen and civilians who were also enthusiasts. At first the Regulars sought much, were able to give little in return. But they learned rapidly and were soon winning the National Team Match.

1904 The President of the United States, Theodore Roosevelt, became a Life Member and wrote a personal letter of congratulation to the winner of the President's Match. William Howard Taft, Governor of Ohio, became a Life Member and later, as President, solidly established the policy of the President's congratulatory letter to the winner of the NRA's most important service rifle match.

1905 College men were forming National Guard companies in armories near their campuses. Why not, therefore, hold intercollegiate rifle matches? On May 6, the first NRA Intercollegiate Championship attracted teams of college-guardsmen from Princeton, Harvard, Yale, and Pennsylvania. They finished in that order.

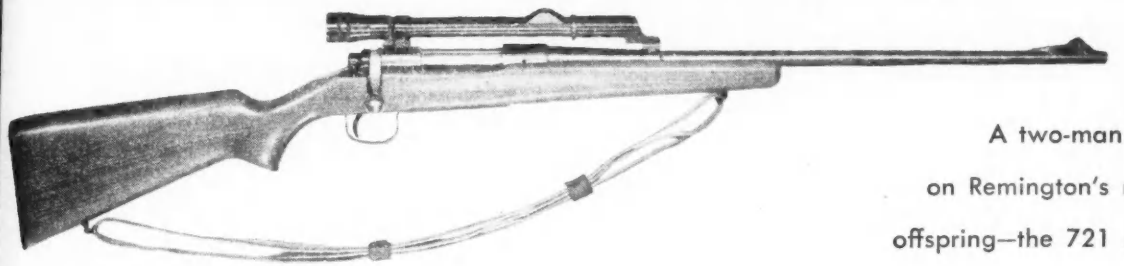
The Public Schools Athletic League in New York City started an interscholastic program with .22 rimfire rifles. In Washington, D. C., high-school cadets were competing with the Krag.

Gradually the picture of the future shooting game was taking form.

1907 The National Matches were moved to Camp Perry, Ohio—and another American tradition was in the making. This was the golden age of military range construction and at Camp Perry, Ohio had completed the model of all American military ranges. Firing toward the North, riflemen were unbothered by sun at any time of day. A single, continuous firing line, targets echeloned at 200, 600, 800, and 1,000 yards, made possible the firing of several matches concurrently. Neither inshore shipping nor fog, the banes of Sea Girt, would interrupt firing at Camp Perry. Six hundred miles west of Sea Girt and on the main line of the New York Central, the new range was more accessible to a larger number of state teams than the east coast range. Here, too, was the final break with the feeling among many riflemen that the NRA was, regardless of title, in fact a metropolitan New York organization.

1916 America, treading uncertainly down the sidelines of the war which had engaged the great nations of Europe since 1914, spurred Congress to adopt an overall long-range, national defense plan—the "National Defense Act of 1916." Into it went broadened authority for the National Board for the Promotion of Rifle Practice. Civilian rifle teams from each State might now be sent to the National Matches at Government expense. A "Director of Civilian Marksmanship" was established in the War *(Continued on page 34)*

SOMETHING NEW!



A two-man report on Remington's newest offspring—the 721 sporter

THEORY: By JULIAN S. HATCHER

Based on a lifetime acquaintance with ordnance problems and theory, General Hatcher brings you this report on design features of the new Remington 721.

THE LONG-AWAITED REMINGTON 721 rifle, just announced together with a short-action companion, the 722, looks at first glance like any other bolt-action hunting model. A closer examination reveals, first of all, something quite different looking about the bolt. The absence of any sign of an extractor or extractor collar gives it an almost "unfinished" appearance. But it is all there just the same, and it is a far stronger and far safer bolt action than any that has ever been produced before.

With the conventional Mauser-type action, which includes the Springfield M1903, the Enfield M1917, and the German 1898 Mauser, the weakest point is the space between the back wall of the chamber and the front of the bolt where no metal supports the cartridge case. The strength of the case itself is depended upon to bridge that gap and support the gas pressure. In cases of excess pressure or bad brass, this is where the first failure occurs. The brass gives way at this point and the gas gets out and causes trouble. If the receiver happens to be weak or brittle, as it was in some of the old low-numbered Springfields, it can even wreck the action. In the new Remington design, no such weak point exists. The face of the bolt is recessed deeply, so as to surround the head of the cartridge and house it completely, up to the point where it is supported by the walls of the chamber.

The two locking lugs of the bolt are made solid—that is, there is no slot in the left lug for the ejector such as is present in the Springfield, Enfield, and Mauser. This solid lug construction is made possible by the use of a spring-type ejector, housed in the face of the bolt.

The extractor, of a unique and highly effective design, consists of a crescent-shaped spring housed entirely in the recessed portion of the bolt face which surrounds the cartridge head. This spring has a hook or lip on the inside curve which, once it has taken a grip on the rim of the cartridge, will pull the case out of the chamber as long as the rim holds. It will not slip

Continued on next page

PRACTICE: By AL BARR

To get the practical slant, Al Barr took the 721 to Texas for deer—and brought back a fat 11-pointer. Here are his reactions to the 721 in the field.

WE LOOKED OVER A pilot model of the Remington 721 rifle more than a year ago but until recently were sworn to secrecy concerning its merits. Like everyone else though, we were anxious to see one of the first production models and, of course, to use it—which I did on a hunting trip in Texas last December.

The first noticeable good features which struck me upon opening the package of the early production model we received was the light weight and nice balance of the gun. The stock, although of very plain, relatively-soft walnut, together with the finish, looked exactly like what we could expect—suitable equipment for a hunting rifle as intended by the manufacturers. The clean, crisp trigger pulled from about three and one-half to four pounds. Our immediate reaction to the gun was favorable, but the cost of it was a question. Since then we learn that it is not excessive.

Close-up of the Model 721's streamlined action. Above: The new rifle with "De Luxe" Bear Cub scope in Stith mount

The first time we used the Model 721 was to sight in the rifle for an anticipated hunting trip to Texas and to see what accuracy could be obtained with various standard loads. The open rear sight and bead front were not the best for good grouping, but the first results were not discouraging. Best results, however, were not obtained with the hunting-type Remington and Peters loads but with our old favorite, 1940 National Match M1 ammo of Frankford Arsenal manufacture, which gave ten-shot groups at 100 yards of 2.51 and 2.68 inches. Then a J2.5 Weaver scope was installed with the hope of reducing these group sizes. This was where disappointment came. Ten-shot groups with the same ammunition measured 2.85, 2.61 and 2.02 inches. This grouping was not the fault of the scope either, as I had used the same one on other rifles. From these tests we had to come to the conclusion that about

Continued on page 17

off the rim as some extractors are prone to do when the going gets tough. With the extractor thus housed in the bolt head, there is no necessity for a cut-away in the rear of the barrel to accommodate the extractor hook, such as is present in the Springfield, nor is there a groove cut around the front end of the bolt for the extractor to ride in. This construction adds enormously to the strength of the action.

What this new construction means in terms of increased safety can hardly be realized, but some idea can be gained from the brutal proof tests that have been withstood by a pilot model of the 721. In order to check the strength of this action and to compare its performance under stress with that of various other actions, the same tests were made with the 721, a Springfield M1903, an Enfield M1917, and a German World War II Mauser.

The first test consisted of splitting the necks of cartridges down to the shoulder and firing these split cases in the four rifles. As was to be expected, none of the rifles gave any trouble. A second and more drastic test consisted of using cases which had been sawed near the base, making a longitudinal split extending into the primer pocket. Cases prepared in this manner caused gas to blow to the rear alongside the bolt in all the guns except the new Remington 721.

Next, a regular high-pressure proof cartridge was fired. This contained 42.9 grains of finely-grained, quick-burning powder behind a 180-grain bullet, designed to give a pressure of around 70,000 pounds per square inch. Nothing happened. This overload charge was then increased a grain and a half at a time until 54 grains was reached, and the case was so full that no more powder could be put in.

With these terrific souped-up high-pressure loads, nothing at all happened to the Model 721. The same loads fired in the Springfield, Enfield, and Mauser caused severe gas leaks, bent extractors, and splintered stocks, and would have endangered the eyesight of the user of such a rifle unless the strongest shooting glasses had been worn.

Then came the real blow-up test. That 54-grain overload charge was used with an extra 220-grain bullet lodged in the barrel of each rifle just ahead of the chamber. It seems totally unbelievable that any rifle could come through such a test all in one piece, but all of them did. The 721 was unharmed. The Springfield, however, was locked shut, and the receiver was bulged. That gun has never been opened, and probably never will be. The Mauser and the Enfield had plenty of gas blown back, but they held together, and were used in the next test, in which two 220-grain bullets were lodged ahead of the proof charge. The 721 came through all right again, but the Mauser couldn't be opened. The barrel was unscrewed and it was found that the left lug of the bolt (top lug in the locked position) had spread apart where the slot goes through the locking lug, and the face of the bolt was split right to the firing pin hole. The Enfield held together.

Bolt release is located inside trigger guard, ahead of trigger

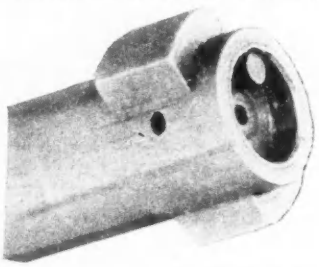
The next test involved three bullets ahead of the proof charge. The Model 721 came through once again. The Enfield gave up the ghost and could not be opened. The receiver was bulged considerably around the front.

This left only the 721 in the running. Four bullets and a proof load worked all right, but five 220-grain bullets ahead of the super-proof charge finally strained the gun and it could not be opened at all.

Right here it should be said that, in spite of all that this gun took, the manufacturer decidedly does not recommend overloads or anything of the kind in *any rifle*.

A critical examination of the 721 and 722 shows that in addition to this tremendous safety factor, they contain several other features of great interest to the ultimate user.

For example, the rifle has been so designed that the receiver can be made of high-quality, round-bar stock instead of requiring a costly, special drop-forging. The recoil shoulder, where the thrust of the action in firing is transmitted to the stock, instead of being produced by the costly machining of a lug on the bottom of the receiver, is made of a simple flat piece which fits between the barrel and receiver, and is held in place by the barrel when it is screwed into its seating.



Most important safety feature of the new Remington sporter is recessed bolt head

The bolt is another part that is made of high-quality bar stock instead of from a special forging. This is made possible by producing the bolt handle in a separate piece and then attaching it by induction brazing, a method which is also used to attach certain other parts.

Other features of these two fine rifles are: Speed lock with lightning-fast short-throw firing pin; fine, crisp dead-break, match-type trigger, with the pull adjustable by simply turning a screw. Bolt handle shaped for lowest possible scope mounting. Side-mounted, thumb-operated safety so placed as to be entirely out of the way of the scope, yet fast, efficient and operated with ease and convenience. Receiver drilled and tapped for a receiver sight or telescope mount. The existing sights are about standard, but most owners will replace them.

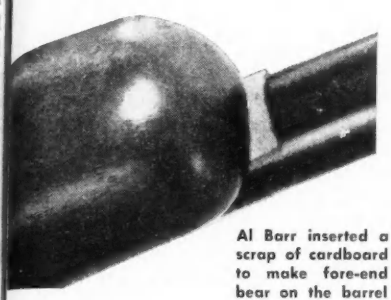
The Model 721, priced at $79.95, is at present being made in .30-'06 only, but will be coming out in .270 Winchester in July and in .300 Magnum in September. The rifle weighs 7¼ pounds, has a 24-inch barrel, and a 4-shot magazine for the .30-'06 and .270. The .300 Magnum will have 26-inch barrel and a 3-shot magazine which, with one shot in the chamber, will make a total of four shots available.

The Model 722 has a short action, will sell for $74.95, and will be out in May for the .300 Savage, and in July for the .257 Remington Roberts. This model will weigh 7 pounds and will be one inch shorter over-all than the 721.

Summing up, both of Remington's new babies seem exceptionally well designed and are available at very favorable prices. Personally, I know of no rifle I would rather have for almost any type of big-game hunting.

AL BARR (Continued)

he best groups for this rifle could be obtained with it as received, with either the rather crude open sights or a 2½X scope. That is about all the shooting we did, except to get from three to four and one-half-inch groups (some even over five inches) with hunting loads at 100 yards. The rifle was sighted in two inches above aim using a new Stith Bear Cub scope in Stith mounts made for the Model 70 Winchester, which are in a sense interchangeable on the Model 721 Remington and Model 70 Winchester. When I got to Texas, the Stiths did not like to see the scope reticule above center of the field, so a higher front base (.056 inch) was made and the reticule was centered.



Al Barr inserted a scrap of cardboard to make fore-end bear on the barrel

While this was a hunting trip planned with a new rifle, some time was spent on the target range used by the Stith mount makers to sight in rifles after mount installation. There I had an opportunity to shoot soft-point and open-point hunting loads of 150, 180, and 220 grains weight in three of the first Model 721 Remington rifles sent out by the makers. These loads seldom equaled the accuracy obtained with old Service loads and everyone seemed to blame the postwar bullets. I believe they might have been placing the blame where it belonged.

Our own rifle was checked for bedding in the Stith shop and the noticeably high spots in the inletting removed. Accuracy with the same hunting loads was no better than before (we did not have the opportunity to try the old Frankford Arsenal loads). At this stage each rifle was tested by inserting a three-quarter-inch wide strip of a regular paper match cover between the stock fore-end tip and barrel without removing the stock. This old trick, used regularly on the range to check accuracy against forearm tension, worked on our M721.

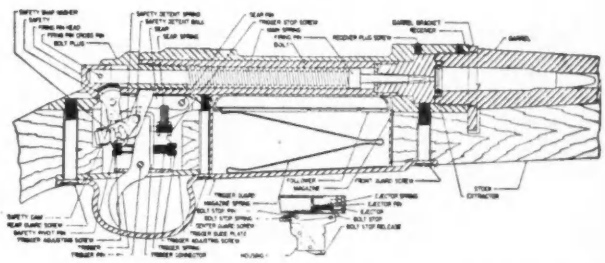
Using a Stith 2½X Bear Cub scope, the Winchester Silvertips grouped in 2.50 inches. The 220-grain Peters grouped in 2.00 inches, but five were in 1.30 inches if one bad hold is ignored. The Peters 180-grain grouped in 1.60 inches. All these were five-shot groups. In this test there was one very bad flier, three inches out of the group, which must have been caused by a bad bullet. The other two rifles did not respond to bedding treatment, but the inletting of the barrel and action had not been checked by removing the stock.

The new Remington is streamlined, as shown by this silhouette photo of a disassembled rifle

In my haste to leave on the trip, I forgot until one-half hour before plane time that a sling and even sling swivels were lacking. I think they are a necessary part of any hunting rifle. These were hastily installed. The absence of a good receiver sight is a handicap, but the receiver is already drilled for standard model sights. The receiver ring is drilled and tapped also for the standard scope base, though the barrel is not.

These items, plus the absence of checkering on the stock, did not seem to bother the average hunter whom I met. They were the kind who use a rifle more or less as a tool but who could appreciate the light weight and nice balance of the Model 721.

On the other side, riflemen who like fancy-figured stocks and engraved actions did not have too much praise to offer for the M721 Remington. They did approve of the smooth, clean lines of the receiver and the handy position of the safety, which is located on the right side of the receiver. A common comment was that the addition of some stock checkering and somewhat better stock wood would add greatly to the appearance of the rifle and that the cost of these items, if done at the factory, would not be too great. Most of these critics did not stop to consider the fact that the Remington Arms Company attempted, and did so successfully, to produce a fine, well-balanced hunting rifle without the extra fineries which add considerably to the cost.



Here, in cross section, are the "insides" of Remington's new rifle

After improving the accuracy of the one Model 721 rifle by merely inserting a strip of cardboard between barrel and forearm tip, we decided, upon return from the Texas trip, that a more thorough check on bedding would be interesting. We soon learned that no part of the receiver, on the bottom at least, except the extreme rear tang, was touching the wood. The front part of the receiver where the front guard screw enters could not be made to contact the stock, the reason being that the "well" for the long, thin recoil plate anchored between barrel and receiver was not cut deep enough. All the load from the recoil was taken on this very small area.

Not wanting to do too many things at one time, so as to learn just what correction would improve on accuracy, the rifle was range tested at 100 yards. One load at least proved that really good accuracy can be obtained with this light sporter when everything is right. After the rebedding job, the Remington 150-grain bronze point made a 1.78-inch group for ten consecutive shots, with nine of them in 1.25 inches. The next five shots went into 1.65 inches, with four of them in 1.27 inches. I would say that is good accuracy for a sporter.

Having had considerable experience with at least one Model 721, I personally feel that for average hunting purposes there is a bright future for this rifle. It is about the handiest bolt-action rifle I have had an opportunity to carry in the woods, after adding the sling and swivels, of course. My own impressions are that for general hunting the Model 721 is going to become quite popular. ● ● ●

THERE WERE GIANTS IN THOSE DAYS . . . AND SHOOTING WAS MORE POPULAR THAN BASEBALL

LONG RANGE RIFLES

The event which had the greatest influence on the development of target shooting in America happened, oddly enough, across the Atlantic many years ago. An Irish rifle team, having defeated the best of England's marksmen for the British long-range championship, looked for new worlds to conquer and, logically, turned to America. As a direct result of that challenge, and the ensuing surge of interest in rifle marksmanship, long-range target shooting was born. Here, in an article by the author of The Muzzle-Loading Cap Lock Rifle, *is the story of the first 1,000-yard rifle match ever fired in America.—Ed.*

By N. H. ROBERTS

IN 1873 THE IRISH Rifle Team of Dublin, Ireland, won the famous Elcho Shield Match at the Wimbledon Range in England with a higher total score than had ever before been made. The team consisted of six men, firing fifteen shots each at 800, 900, and 1,000 yards. The target they used had a three-foot square bull counting four, outside of which was a six-foot square counting three. A hit anywhere else on the six-by-twelve-foot target scored two. Thus, a fifteen-shot possible on this target totalled but sixty points instead of seventy-five as is the case with our present long-range U. S. Army target. Each member of the Irish team used a .45 caliber muzzle-loading cap-lock rifle with a thirty-four or thirty-six-inch barrel, made by John Rigby, of Dublin. These rifles did not have a false muzzle, but employed a bullet starter which fitted closely to the end of the cylindrically-turned muzzle. The bullet weighed 470 grains. A charge of 100 to 120 grains of Curtis & Harvey "Diamond Grain No. 6" black powder was loaded behind this bullet. The bullets themselves were used with a thin linen patch that was wet with saliva or very lightly oiled with sperm oil. The rifles were equipped with a very accurately-made vernier rear peep sight and a shaded wind-gauge front sight having interchangeable discs and fine screw adjustment. Nearly all of the team members shot in one of the "back positions," hence the very long barrels. The rifles were not cleaned nor was the bore wiped during the match.

Fired by the high score which had won the Elcho Shield Match for them, the captain of the Irish team, Major Arthur B. Leach, published a notice in the New York Herald "To the Riflemen of America," challenging a six-man team to a similar match at 800, 900, and 1,000 yards for the "Championship of the World." A stake of 100 pounds sterling was put up as a guarantee that the Irish would meet the American rifle team and shoot this match, at such a date in 1874 and on such a range as would be agreed upon. Of course, the Americans were to put up a $500 stake also.

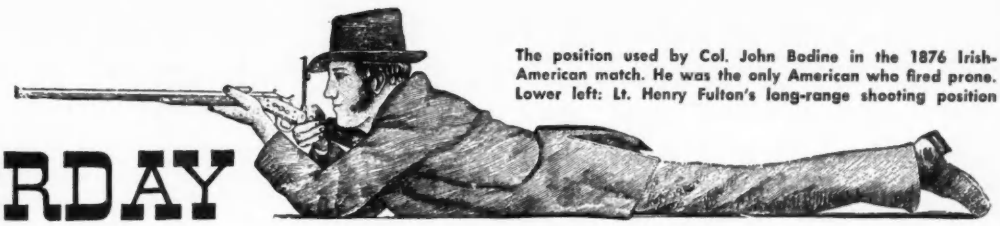
At that time the Amateur Rifle Club of New York City was the only group in the country that had practiced rifle shooting at 500 yards. They had held but six such practice shoots. Not a man in the U. S. had shot at 600 yards or over, yet the Amateur Rifle Club had the "nerve" to accept the challenge of the Irish Rifle Team. The National Rifle Association was far too dignified a body to notice any newspaper challenge not addressed to them and, therefore, disregarded the challenge of the Irish shooters.

Worst of all, it was well known that there was not a long-range, breech-loading rifle then made in the U. S. or anywhere in the world that was equal in accuracy to the Rigby muzzle-loading long-range rifles used by the Irish riflemen. To meet the challenge, the Sharps Rifle Company and E. Remington & Sons each contributed one-half of the $500 prize money and promised the Amateur Rifle Club that they would furnish the American rifle team with breech-loading, long-range rifles that would stand up with the Rigby muzzle-loaders. But this promise was regarded as "sales talk," and almost no rifleman believed that Sharps or Remington could furnish such rifles. At that time the best rear peep sights used on the Sharps and Remington match rifles did not have screw adjustments or a vernier scale. These sights could not be adjusted much closer than 1/20 inch, and the shaded "open bead" and bead front sights were corrected for windage by driving the sight to the right or left with a small hammer.

However, to the surprise of all concerned, both Sharps and Remington made good their promise. Early in the spring of 1874 the Sharps Rifle Company brought out the Model 1874 Creedmoor long-range rifle with a thirty-four inch barrel, chambered for a .44 caliber Berdan-primed, bottle-neck cartridge loaded with 75 grains of Fg black powder and a 500-grain paper-patched bullet. These rifles were equipped with a long-range vernier peep sight having screw adjustment for elevation, and a wind-gauge front sight with interchangeable discs, spirit level, and transverse screw adjustment. These sights were copied from the best English long-range sights used at Wimbledon.

Remington followed with their rolling-block Creedmoor long-range rifles chambered for a similar .44 caliber cartridge, but loaded with 77 grains of Fg black powder. The Remington rifle had the same sights as the Sharps Creedmoor. Both were far superior in workmanship, finish, accuracy, sights, and cartridges to any breech-loaders that had been made in the United States.

The frequent tryouts held at the Creedmoor Range during the summer of 1874 resulted in the selection of Colonel H. A. Gildersleeve, Colonel John Bodine, General T. S. Dakin, Lieutenant Henry Fulton, G. W. Yale (an employee of the Sharps Rifle Company), and L. L. Hepburn (an employee



The position used by Col. John Bodine in the 1876 Irish-American match. He was the only American who fired prone. Lower left: Lt. Henry Fulton's long-range shooting position

YESTERDAY

of E. Remington & Sons) as the American rifle team. Practice shoots were held regularly for this team at Creedmoor. The Irish arrived in New York City early in September and the match was fired on September 26, 1874. The American team scored a total of 326 at 800 yards, 310 at 900, and 298 at 1,000 yards, giving them a grand total of 934 points. The Irish rifle team scored a total of 317 at 800 yards, 312 at 900, and 302 at 1,000 yards, for a total of 931 points. Thus, the American team won the match by only three points. If J. K. Millner of the Irish team had not fired his first shot at 900 yards on the wrong target, their total score would have been four points higher, or a total of 935!

It will be noticed that the Irish riflemen made higher scores at 1,000 yards with their Rigby muzzle-loading rifles than the American team. The bores of the Rigby rifles were not wiped during the entire match. Our team wiped the bores of their breech-loading rifles after each shot.

On the day following the match, the American team accepted a challenge made by John Rigby for a match between muzzle-loading rifles of his make and the American breech-loaders, competitors to fire twenty-five shots each at 1,000 yards but not allowing the Americans to wipe the bores of their rifles after each shot. This was an easy win for the muzzle-loaders. As great as was the reputation which the Sharps and Remington breech-loading rifles earned for themselves a few years later, they were at that time wholly unfitted to make fine scores when not cleaned after each shot. In this match the lowest score made with a Rigby rifle was higher than the best made with the Sharps rifle.

In this match, with four men on each team, the results were: Irish team, firing Rigby muzzle-loading rifles at 1,000 yards—Edmund Johnson, 84; John Rigby, 84; Dr. J. B. Hamilton, 77; James Wilson, 76; total 321 points. The American team, firing Sharps breech-loading rifles: J. Collins, 75; Gen. T. S. Dakin, 64; Col. H. A. Gildersleeve, 49; G. W. Yale, 13; total 201 points. The possible score for each man was 100 points as this match was shot on the target having the old square bullseye counting only four points. This shows very conclusively that the Rigby muzzle-loading long-range rifles were then much superior in accuracy to the famous Sharps special breech-loading rifles with which our team was equipped.

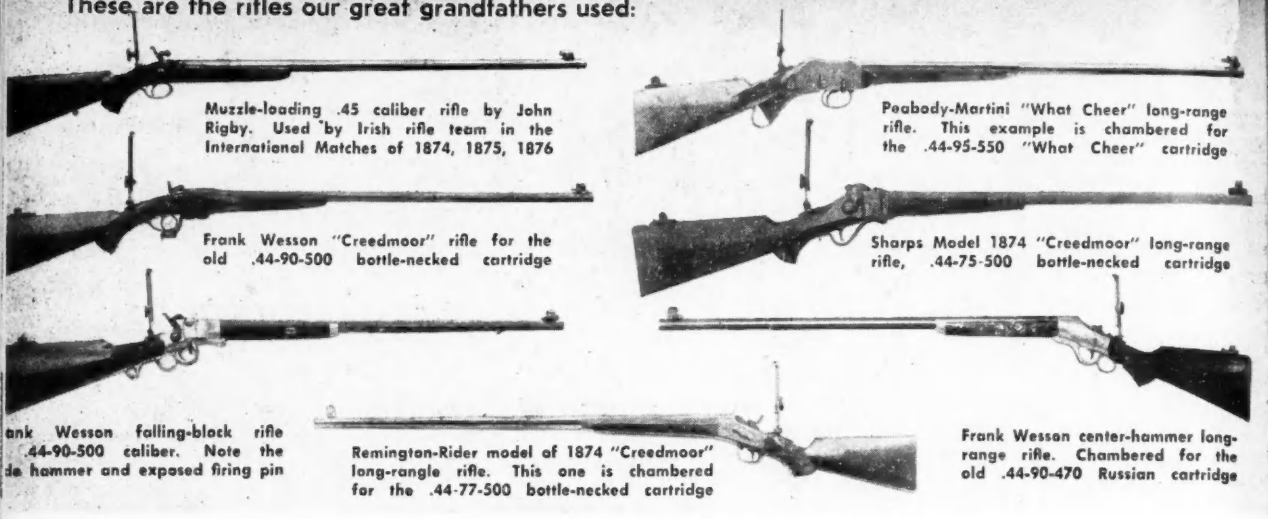
The Centennial International Longe-Range Rifle Match for "The Championship of the World" was shot at Creedmoor on September 13 and 14 in 1876. In this match, eight-man teams from Ireland, Scotland, Australia, and Canada competed with the American rifle team. The conditions of the match were fifteen shots a day at 800, 900, and 1,000 yards on the new Creedmoor target having the circular bullseye that had been adopted by the National Rifle Association of Great Britain and the National Rifle Association of America early in the previous year. The possible score for each man at each range was, therefore, seventy-five points instead of the sixty with the old square bullseye target used in the

HARPER'S WEEKLY
A JOURNAL OF CIVILIZATION
Vol. XIX.—No. 969.] NEW YORK, SATURDAY, JULY 24, 1875.

1874 match. This match resulted in another victory for the American rifle team, who won by twenty-two points. Their total for the three ranges on the first day of firing was 1,577 and 1,549 on the second day, giving them a total of 3,126 out of a possible 3,600 points. The Irish rifle team's scores for the three ranges were 1,582 on the thirteenth and 1,522 on the fourteenth, giving them a total of 3,104 for the match.

In this match the Irish, Scotch, and Australian teams used muzzle-loading rifles, the Irish team again using their Rigbys.

These are the rifles our great grandfathers used:



Muzzle-loading .45 caliber rifle by John Rigby. Used by Irish rifle team in the International Matches of 1874, 1875, 1876

Peabody-Martini "What Cheer" long-range rifle. This example is chambered for the .44-95-550 "What Cheer" cartridge

Frank Wesson "Creedmoor" rifle for the old .44-90-500 bottle-necked cartridge

Sharps Model 1874 "Creedmoor" long-range rifle, .44-75-500 bottle-necked cartridge

ank Wesson falling-block rifle .44-90-500 caliber. Note the de hammer and exposed firing pin

Remington-Rider model of 1874 "Creedmoor" long-rangle rifle. This one is chambered for the .44-77-500 bottle-necked cartridge

Frank Wesson center-hammer long-range rifle. Chambered for the old .44-90-470 Russian cartridge

We do not know what rifle the Canadian team used, but it may have been the Martini-Henry .45 caliber breech-loader that was then the service arm of Great Britain.

Sharps, Remington, Maynard, and Ballard had by then brought out specially selected long-range rifles using the .44-90-500 caliber bottle-necked and the .45-100-500 Sharps straight cartridges, all loaded with the Berdan primer—then the only type we had—and paper-patched bullets that were swaged from cold lead by heavy machines. The cartridges for these rifles were loaded with special care, the powder charges and bullets all being carefully and accurately weighed on sensitive scales to assure the most perfect cartridges it was possible to produce at that time. Therefore, it will be seen that the American rifle team had the finest, most accurate, long-range breech-loading rifles that had been produced in this country, while the cartridges used were superior to any others before produced, being the very best that could be made then. However, the Irish rifle team would have won the match with their Rigby muzzle-loaders if the rules had prohibited cleaning the bore of the breech-loading rifles after each shot. Each member of the U. S. team spent more time in very carefully and uniformly cleaning the bore of his rifle after each shot than he required in shooting his score.

When the 1874 match was shot, all American team members used Sharps long-range rifles except L. L. Hepburn who used a Remington-Rider rolling-block rifle. Before the 1876 matches were shot, the Remington-Rider long-range rifles had been so improved that only one man on the U. S. team, Colonel H. A. Gildersleeve, used a Sharps rifle. All the others used Remingtons. Even Colonel John Bodine, for whom the Sharps rifles were named "Old Reliable," shot a Remington in the 1876 matches.

All U. S. team members except Colonel Bodine shot in one or another of the back positions in the 1876 matches. Particular attention is called to the prone position adopted by Colonel Bodine, as shown in the illustration to the right of the title of this article. A Camp Perry coach would almost certainly rule a shooter off the team if he shot in such a prone position today. I wonder what Bodine did with his right leg when this sketch was made? He was not a one-legged man. How is it that he did not have on a shooting coat with padded shoulder and elbows? The cartridge Bodine used was loaded with 100 grains of black powder and a 500-grain bullet, which gave the rifle a much heavier recoil than our .30-'06 Springfield.

On the second day of the International Rifle Matches of 1876, J. K. Millner of the Irish team had the honor of making the first perfect fifteen-shot score ever made in a match at 1,000 yards. He made this score with his .45 caliber Rigby muzzle-loading rifle, with which he had fired fifteen shots at 800, fifteen shots at 900, and fifteen at 1,000 yards without having wiped the bore of the rifle. This was considered a marvelous score, definitely proving that no breech-loading rifle then made was capable of such fine accuracy, even when the bore of the rifle was wiped after each shot.

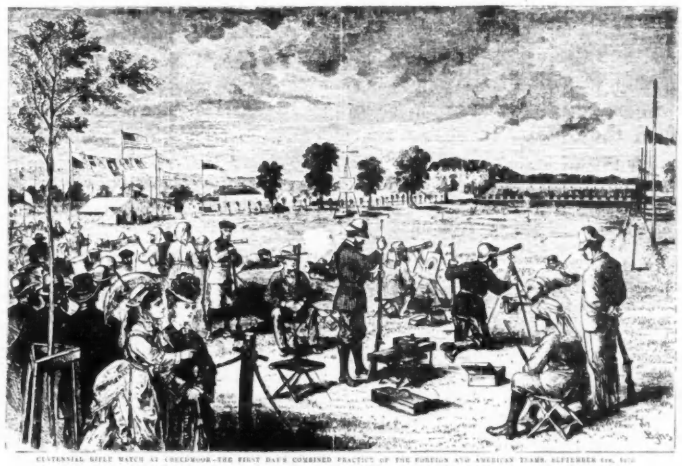
The International Rifle Matches of 1876 aroused much enthusiasm in long-range rifle shooting in this country and created interest among our arms manufacturers in producing better, more accurate breech-loading long-range rifles and better ammunition for them. In fact, the Sharps Rifle Company brought out, early in 1877, the Sharps-Borchardt long-range rifle which was promptly adopted by the majority of our expert long-range marksmen. This gun's hammerless action was then regarded as the practically perfect single-shot. It was very strong, symmetrical in appearance, the straight-line firing pin falling but 3/8 inch gave faster lock time than any other rifle, and the new vernier rear peep sight on it was more accurately made and provided finer adjustment than any other vernier sight being manufactured at that time. It was the first vernier sight providing 1/1000 inch adjustment; the finest adjustment with the previous vernier sight was only 1/100 inch.

The Sharps-Borchardt rifles were furnished with thirty-two or thirty-four-inch barrels, chambered for the .40-90-370 bottle-necked and Sharps Straight cartridges, the .40-70-370, .44-90-500, .44-105-520, .45-70-420, .45-100-550, and .45-100-475 Sharps Straight cartridges, all loaded with paper patched bullets. The workmanship on these rifles was superior to that on any other Sharps rifle or on any other rifle that had been on the market. The barrels were bored and rifled with the greatest care to give the finest accuracy; the pistol grip stock and forearm were of selected walnut, finely checked, and the best grade rifles had walnut panels matching the stock inlaid in each side of the receiver.

In the International Rifle Matches of 1877, at Wimbledon, England, the majority of the American team used Sharps-Borchardt rifles, and the scores made with these at all ranges were higher than had ever before been made. In that match, Lieutenant L. C. Bruce of the American team scored 74 at 800, 72 at 900, and 73 at 1,000 yards, giving him a total of 219 out of a possible 225 with this rifle, which was a

world's record score" for some years. On September 15, 1877, Sergeant Gilder of the British team scored sixteen consecutive bullseyes at 1,000 yards with the .44-90-500 caliber Sharps-Borchardt rifle in a practice match at Wimbledon. This phenomenal score, witnessed by more than 100 riflemen, had never before been equalled with any muzzle-loading or breech-loading long-range rifle, even in practice. The highest number of consecutive bullseyes that had been made in a previous match at 1,000 yards with a breech-loading rifle was but nine out of fifteen shots. The members of the British team were so impressed with the fine accuracy of the Sharps-Borchardt rifle that many of them ordered these rifles. They were the first breech-loading rifles that had proved equal to the Rigby. The London Sporting Gazette, of September 29, 1877, stated: "The American victory is a victory of superior rifles, not of superior marksmen, and indeed in the Sharps-Borchardt rifle the Americans seem to have at last secured a match rifle which, for accuracy at long ranges, is unsurpassed, perhaps unequalled."

The Ballard "Creedmoor A-1" long-range rifle came out in 1876 in the hope that it would be adopted by some member of the American team for use in the International Rifle Matches of that year, but according to the records no member did. They all used Remington-Rider or Sharps rifles. The Ballard Creedmoor A-1 rifles were chambered only for the 44-110 Everlasting 2⅝ and 2-13/16-inch cartridges. These rifles had selected pistol grip stocks and forearms of nicely-grained walnut, the best vernier rear peep and wind-gauge, interchangeable disc, spirit-level front sights, and were of high-grade workmanship throughout. A few years later the Ballard Creedmoor A-1, the Long-Range Rifle No. 7-A, and the No. "7-A-1 Extra" (which was largely a custom-made rifle of deluxe grade) became very popular long-range rifles and were the choice of many experts. But in 1876, the Ballard rifle had not proved its capabilities as a long-range rifle, while the Sharps and Remington-Rider rifles had proved their merits in the 1874 and 1875 matches.



CENTENNIAL RIFLE MATCH AT CREEDMOOR—THE FIRST DAY'S COMBINED PRACTICE OF THE FOREIGN AND AMERICAN TEAMS, SEPTEMBER 10th, 1876

The Peabody-Martini "What Cheer" Long-Range Rifles, made by the Providence Tool Company, Providence, Rhode Island, came on the market in 1880. They were chambered for the .40-70-380, .40-90-500, and .44-95-550 Berdan-primed bottle-necked cartridges, loaded with paper-patched bullets. All were known as the "What Cheer" cartridges. Many believe these rifles are of European or English origin, but the U. S. Patent Office records prove the Peabody-Martini was the invention of Henry O. Peabody, of Boston, Massachusetts—strictly a New England product, as much so as Boston baked beans. Peabody patented two models on July 22, 1862: One, the Peabody, with a heavy side hammer; the other a hammerless action, practically the same as the model later known as the Peabody-Martini. After Switzerland adopted the Peabody rifle for its service arm, Freiderich Martini, a Swiss inventor, made slight changes in Peabody's hammerless model and it was then called the Peabody-Martini, the Martini, or the Martini-Henry after adoption by the British Army.

The Peabody-Martini rifles were made of the best materials, the workmanship was high grade throughout, and the barrels were very carefully bored, reamed, and rifled to give the very best possible accuracy at long ranges. The sights were a vernier rear peep and interchangeable disc, wind-gauge front sight with spirit-level. They were really excellent long-range rifles but for some reason did not become popular with any of the long-range riflemen of this country. However, the Peabody-Martini rifles were used for years by many of the expert English long-range riflemen in the matches at Wimbledon, although those rifles were known as the Martini-Henry instead of the Peabody-Martini.

Why were these rifles and their cartridges called "What Cheer"? That is a question often asked but seldom answered. According to the reports in the old magazine *Forest and Stream*, a fine rifle range of that name was opened in October, 1875, only a few miles from Providence, Rhode Island. As the Peabody-Martini rifles were made in that city, the Providence Tool Company decided to call these rifles and their cartridges "What Cheer" in honor of their home range instead of "Creedmoor," the name of the rifle range on Long Island which was given to the Sharps, Remington-Rider, Ballard and other long-range rifles of those times.

Frank Wesson, Worcester, Massachusetts, introduced three models of Creedmoor long-range rifles chambered for the .42-77-730 and .44-90-470 Russian Berdan, bottle-necked cartridges, and the .44-90-500 and .45-100-500 Berdan-primed, bottle-necked cartridges, loaded with paper-patched bullets. These were falling-block arms having an under lever, as shown in the illustrations. The first and second models had bronze receivers, one of which had a light center hammer and the other a light side hammer so arranged that after the rifle had been fired the action could not be opened until the hammer had been placed in the safety (half-cock) notch. The third model was made with a forged steel receiver, so that it would be safer to use with heavier powder charges and higher pressures than the preceding models. The lever of this model was of the Henry type, locking into a slot in the trigger guard when closed as an additional safety feature.

This third model rifle and all its parts were of better materials and workmanship than the two previous models, and Wesson claimed special attention paid to drilling and rifling the barrels for the finest long-range accuracy. However, none of these rifles became popular with our experts and their manufacture was discontinued about 1882.

The National Rifle Association rules of those times required all long-range rifles to weigh not over ten pounds, and all the rifles illustrated with this article complied with that rule. ♦ ♦ ♦

XIV

LONDON

1948

OLYMPIC *News*

THE XIV Olympiad will be held in London, England, beginning July 29, 1948. The shooting program—two rifle and two pistol events—will be conducted at the famous Bisley Range, August 2 to August 6.

The four events are:

Any Rifle (Free Rifle) at 300 meters, three positions.

Any miniature rifle, .22 caliber, at 50 meters.

Any target pistol, .22 caliber, at 50 meters.

Any automatic pistol or revolver on five silhouettes at 25 meters.

The rules are those of the International Shooting Union *(Union Internationale de Tir)*. In cases of disagreement on the interpretation of the rules, the French text will govern.

In each match the United States may enter three individuals. No alternates are permitted. The individuals will fire as such and not as a team. It is now planned that the United States will be represented in all matches.

It is hoped by the membership of both the Olympic Rifle and Pistol Committees to establish a sufficient number of preliminary tryouts throughout the country to enable every interested individual to attend a tryout without too much inconvenience or expense. To this end, arrangements are being made for both .22 caliber rifle, and pistol and revolver preliminary tryouts to be included as a part of the program at NRA Regional Rifle and Pistol Matches, as well as at State Championship Tournaments. All Olympic preliminary tryouts must be completed prior to July 5. The Marine Corps will also hold preliminary tryouts at Quantico and the Army at a number of posts and stations throughout the continental United States and our overseas possessions. Civilians, as well as soldiers, will be permitted to participate in the Service preliminary tryouts if they wish to do so. In addition, the United States Revolver Association will conduct a number of preliminary tryouts throughout the country for .22 caliber pistol and automatic pistol or revolver. An attempt will be made to hold preliminary free-rifle tryouts in those locations throughout the United States where sufficient interest warrants doing so.

each month, through the september issue, this page will be devoted to news of american participation in the rifle and pistol events of the XIV olympiad

A shooter may elect to fire in any preliminary tryout, but he may fire in only one. Following the preliminary tryout matches, scores will be immediately reported by the Olympic representative present at the match to the American Olympic Rifle and Pistol Committees. The Olympic Rifle and Pistol Committees will meet immediately after July 5 for the purpose of selecting a squad in each class, both rifle and pistol, from among those who have tried out. These squads will be invited to attend the finals which will be conducted at Quantico, Virginia, on the Marine Corps range. In the finals the three United States representatives in each class will be selected on the basis of the scores made. The three highest competitors in each group will represent the United States. However, the United States Olympic Committee reserves the right to approve the final scores, in order to guarantee that our representatives will conform to previous Olympic standards.

Attendance at the preliminary tryouts and the finals will be at the competitors' personal expense. Expenses from the time the final selections are made at Quantico to and from London and return to the home of the competitor will be borne by the Olympic Committee. All preliminary tryouts must be completed on, or before, the July Fourth weekend in order to make it possible to hold the finals during the July tenth weekend at Quantico, since the members of the Olympic Squad must be reported by name to the U. S. Olympic Committee not later than July 17.

Targets for all types of Olympic firing will be available to clubs and tournament sponsors through the Director of Civilian Marksmanship, and additional pistol and small-bore rifle targets will be available for purchase through the National Target Company, 1255 25th Street, N. W., Washington, D. C.

The Olympic Amateur Rule is again giving us much concern. In the Olympic Program for the 1948 Games we read: "The rules are those of the International Shooting Union."

The International Shooting Union, at its meeting in Sweden in 1947, endeavored to define an amateur in the following language:

"As an amateur should not be considered:

"(a) anyone who gives an exhibition in marksmanship and is paid for it,

"(b) anyone who professionally makes test shooting of guns, or ammunition from the shoulder (an operator of a test shooting machine is not included),

"(c) anyone who is a professional instructor in shooting.

"To (b) and (c) categories do not belong a member of the armed forces, who acts as instructor to recruits.

"In judging the status . . . according to this article, the activities of the competitor during the last two years should be considered.

"The competitor should fulfill the qualifications of amateurism laid down by the National Olympic Committee of his country."

However, the Olympic Committee, while accepting the definition of an amateur, as drawn by the International Shooting Union, nevertheless will require each athlete to sign the following declaration:

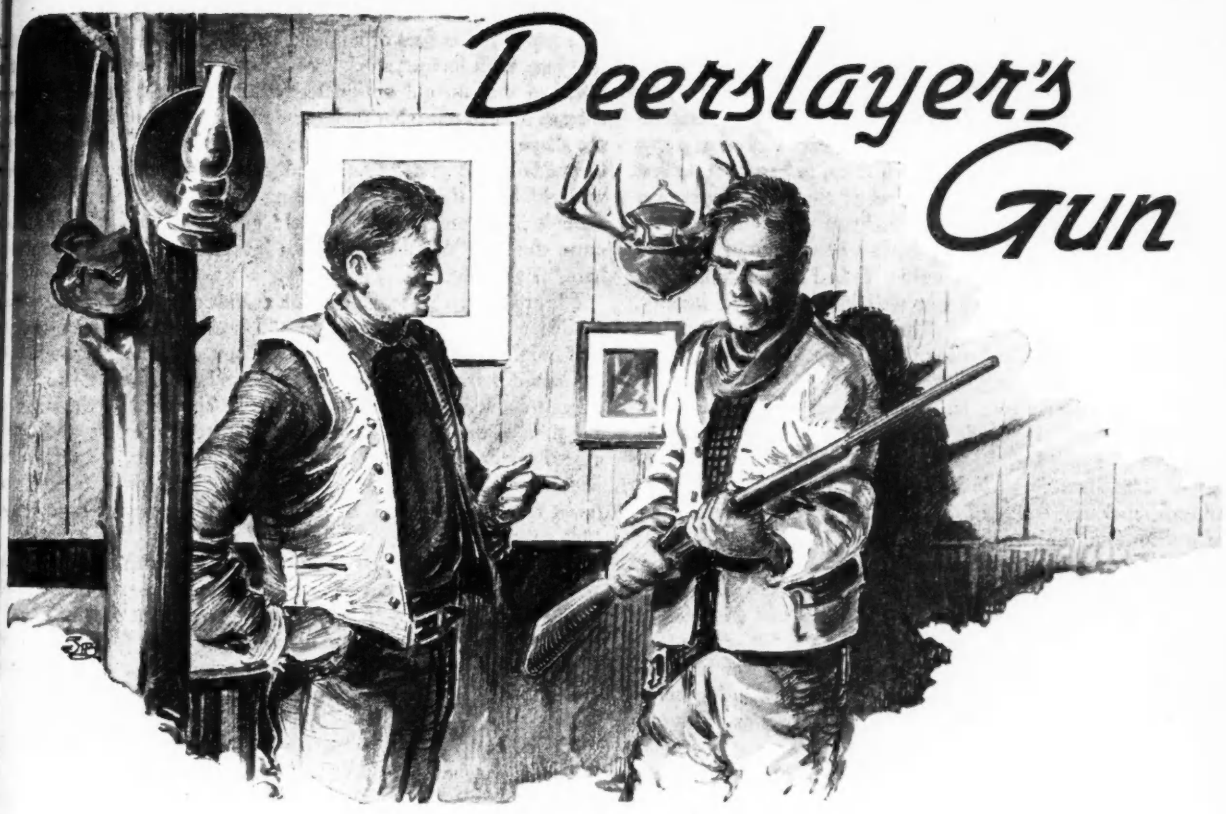
"I, the undersigned, declare on my honor that I am an amateur according to the Olympic Rules of Amateurism, and that I fulfill the conditions required by the Olympic Rules."

From the above, it will be seen that there is still some confusion with regard to the definition of an amateur. It is, therefore, suggested that every individual who wishes to compete in the Olympic tryouts be prepared to sign the above quoted certificate.

Detailed information concerning courses of fire, conditions, location of tryouts, et cetera, will appear in the April issue of THE AMERICAN RIFLEMAN.

KARL T. FREDERICK,
Chairman,
Olympic Pistol Committee,
61 Broadway,
New York, N. Y.

M. A. RECKORD,
Chairman,
Olympic Rifle Committee,
1600 Rhode Island Ave.
Washington 6, D. C.



Deerslayer's Gun

By WALTER RODGERS

WHEN EMIL HESTER WENT AFTER DEER, IT WAS A ONE-SHOT AFFAIR. A NEW STORY BY THE AUTHOR OF "GUN FEEL"

As the last of the fresh-broke horses trotted through the gate of the corral and out into the adjoining pasture, I followed through and closed the gate behind them, and then turned back through the high-pole pen to where Elmer was unsaddling his horse. He stripped the rigging from the sweaty mount and dumped the saddle to the ground and wearily squatted on his heels against it.

"That winds up a summer's work, I reckon," Elmer grinned, slapping the dust from his old hat and looking at it speculatively. "Still figurin' on trappin' this winter, Slim?" he asked as I dropped down beside him and removed my old leather chaps.

"Yeh!" I answered. "Hoss breakin' has its merits I suppose, but now you take me, I'd rather be back in the mountains afoot with a good gun, come wintertime, and . . ."

"Yeh, I know," he said as he reached for his makin's and proceeded to roll a smoke.

"Still hankerin' to line the sights of that new gun on a deer? Well, it's a good gun all right and I'd sort of enjoy huntin' with it, too. But me, I ain't no hunter. I'd always a heap rather do my travelin' on four legs instead of just two, so guess I'll mosey down the country aways and look around for a spell. I couldn't earn my salt at trappin'. Where you decided on campin'?"

"Think I'll work that range east of Verde Pass," I replied, "and likely camp at a spring above Six-Shooter Bill's place. Bill, he's the deerslayin'est feller I ever see. Elmer, you'd ought to see that old gun of his. It's a .45-70 Springfield and I've seen Bill break a buck's neck 300 yards away with it. He never misses. I showed him my new .30-30 carbine the other day. I figured sure he'd fall for that little gun. But Bill says, 'Why, I wouldn't go a cripplin' up the game with a toy like that!' And, I dunno, maybe he's right, Elmer. A feller had maybe ought to do his deer huntin' with a gun that's plenty big enough to put one down when he's hit. And that old smoke pole of Bill's sure deals out a wallop."

"Well, I wouldn't exactly throw that carbine away till you give it a good tryout," Elmer said. "I've seen a heap of venison brought in with them little thirties. A'course, they don't beller and smoke like them old .45-70's, and maybe don't hit quite so hard, but they'll kill a deer if he's hit right. Why don't you ride up some day to Hester's Ranch on the head of Spring Creek and sort of look that old gun of his over, a'seein' you're always interested in the kind of gun every famous hunter uses? And Emil Hester, I reckon, has actually killed more deer than any other two men in this country. Like I told you before, I never paid any attention to the kind of gun he's got on account of I never was much interested that way in guns. But I ain't ever been to his cabin yet that he didn't have venison to eat, and they's deer horns hangin' all over his place. He don't talk no other kind of language 'cept huntin'. 'Lows he never shot one twice and don't spoil any meat. They call him the

Deerslayer up on that creek. Whatever kind of a gun he uses, I reckon it would do to copy after."

I had heard the story before from more than one rider of that thinly-settled part of the country. It had always kindled a desire in me to see this deerslayer's gun, for as Elmer had intimated, guns are a hobby of mine. I've never looked at a gun yet that my fingers didn't itch to pick it up, to handle it, to feel its balance, to aim it and try the feel of the stock against my shoulder. And now, as Elmer brought to my mind again the subject of this deerslayer's gun, I felt a new surge of desire to get my hands on that particular rifle. It had a reputation. The Deerslayer of Spring Creek was well known in that locality, though I had never met him. I had been on that range only a little over a year and had spent the entire summer in partnership with Elmer, breaking horses.

A few days later I rode up Spring Creek Cañon lookin' for the Hester ranch. It wasn't much of a ranch, according to the term usually applied to the large holdings predominant in these parts. Mr. Hester's little spread only supported a few cows, and his ranch house was a log cabin backed up against the foot of a mountain. The cañon proper opened in front of it and below the house. As I topped out of the cañon, I found myself almost in his door yard before I caught sight of the building. It had large cedar trees all around the house, and a stable was half hidden in the nearby hillside, dug out and banked up with adobe. It was an ingeniously contrived shelter for a saddle horse. A trail led down the hill, I noticed, to a spring below the house, and I couldn't help admiring Mr. Hester's idea of a quiet retreat like this for a home.

I had decided that my excuse for the call would be that I was looking for a location to trap this winter. Sure, I had already made up my mind to spend the winter in Six-Shooter Bill's country, but I needed a good excuse to visit with Emil Hester and work up a conversation about deer guns. I just had to see with my own eyes the gun that had earned this man the name of Deerslayer.

As I rode up to the cabin, a middle-aged woman came to the door. I hadn't expected this, not knowing that the Deerslayer was a family man, but since I had come this far I decided to make the most of it. So, tipping my hat polite, I asked if Mr. Hester was at home.

"Why, he's out on the range somewhere," the lady answered, "But he'll be in shortly as it's almost night. Won't you get down and come in?"

So, lifting my hat from my head, I introduced myself to her. At her bidding I entered the cabin and took a chair.

"My lands," remarked the good lady, "you've rode all the way from the Jack Ranch up here today? You must be awful tired. Make yourself comfortable, and I'll rustle you some coffee. Emil'l be in soon now." With that she bustled off into a lean-to kitchen and started stirring the fire in preparation for the promised coffee.

I looked around me at the furnishings in the cabin room. I was sitting in a cottage chair that had been neatly re-bottomed with deer hide. Other chairs in the room were similarly decorated. The walls of the log room were literally covered with deer antlers. Prominent on the floor in front of the open rock fireplace and covering a good portion of the room was a large black bear hide. I had noticed deer antlers hanging from the forks of several trees outside as I dismounted to enter the house. Evidently Mr. Hester only preserved his best specimens for indoor decorations such as these. Lying suspended lengthwise across the antlers of a huge head that hung just above the fireplace, with its butt stock protruding from a deerhide saddle scabbard was an old antiquated-looking rifle. I couldn't see enough of it to tell what make or design it was, but knew from the shape of the stock that it was an old timer. "Probably his Granddad's old gun," I surmised, looking intently at all that was visible of the rifle and wishing mentally that I was well enough acquainted to take the old gun down and examine it more closely. "Maybe I'll get to look it over before I leave here," I thought.

I heard a horse's shod hoof clink against a rock coming down a hillside trail back of the house. "I hear Emil coming now," said Mrs. Hester, "and the coffee will be ready time he gets in."

I could mark his progress by the sound as he rode on to the dugout stable. After a few minutes he appeared in the door He greeted me with a wide grin as he stepped inside and accepted my hand. He was a large, well-built man, I judged to be somewhere around forty. When he took off his battered old hat it revealed a shock of reddish-brown hair just beginning to turn grey.

His good wife appeared in the kitchen door with two cups of steaming coffee. She gave one to me and the other to her husband with the remark, "Emil, this young man just rode in from ever the Jack Ranch way and allows he's looking for a place to trap furs this winter. I told him you would know more about the varmints hereabouts than I would, seein' you're out there with 'em most all the time."

"Yes," he grinned, turning to me, "she says I'm part varmint myself or maybe I wouldn't spend so much of my time in the woods."

I liked the man. He seemed to fill the house with his frank, friendly personality.

I told him of my mission, adding that while I was looking for a suitable location for the winter I had no intention of horning in on another man's trapping grounds. He might be intending to trap this country himself for all I knew. But he said he was not interested in trapping. His few cows usually took up his time pretty well. He had seen signs, he told me, that led him to believe trapping ought to be pretty good.

He was the perfect easy-going host. Said I should spend the night with them and in the morning we would look around.

To all this I agreed heartily, but in the evening after supper and up until I was snugly bedded down in a small bedroom to myself I had not found an excuse for raising the subject of the Deerslayer's rifle.

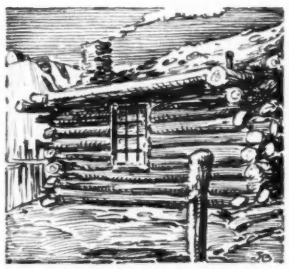
You just don't act too inquisitive about anything out here where people live far between. Especially among strangers. You take it for granted that if they want you to know any of their business, they will tell it to you. So, next morning while saddling up out at the little pole corral, I watched eagerly for

WALTER RODGERS' first published story ("Gun Feel," January) set a RIFLEMAN *record. By mid-January, 150 letters had been received, and they are still going strong. All but one are hearty endorsements of Rodgers . . . for his matter-of-fact style, his appeal to the average, one-gun rifleman. Readers who asked for more Rodgers stories ran the whole gamut of NRA membership . . . business men, farmers, ranchers from Rodgers' own beloved Southwest; boys with .22's; long-range, precision rifleman who wanted more of his stories even though they do not go in for his kind of shooting . . . and one from Erle Stanley Gardner, famed detective story writer and creator of Perry Mason, who should know good writing when he sees it. So . . . here is another Walter Rodgers story.*

e Deerslayer to bring out his famous rifle and attach it to his ddle. He mounted and led off up the mountain without a n of a gun.

We covered a good part of the back country that day and ited many water holes. I saw enough fur-bearing animal n to justify a season's trapping in the area but not as plenti-l, I judged, as they were above Six-Shooter Bill's place. So old Mr. Hester I reckoned after all I would do better to end the winter up in the north range. "Plenty of deer," I marked as we flushed a beautiful buck and a couple of does d fawns from a little spring.

"Yes. They are in good condition, too," he remarked, watch-g them clatter up the hillside into the cedar brakes. "Some-mes when the range is dry it's hard to find one t enough to eat, but this fall you can just out take your choice."



This, I figured, was my opening cue to a n conversation. As we rode back toward the nch, I talked deer guns as casually as pos-ble. I said that while I had done some deer unting, I still reckoned myself pretty new at e game. As a matter of fact, I was still try-g to figure what make and caliber of rifle ould really be the best for an all-around deer un.

Mr. Hester said he had seen them killed with several dif-rent kinds of guns. But he reckoned after taking everything nto consideration that the gun a man was most familiar with as about the best bet for sure results. "In this brush ountry," he said, "findin' a buck that is fat enough to eat good s about the hardest job. If you know how to *hunt* deer, you nd the one you want and just plug him through the heart and ring him in. That's about all there is to it."

Arriving at the cabin, Mr. Hester insisted I spend another ight with them and take advantage of an early start for my ng return ride tomorrow. I agreed, not yet having accom-lished my purpose of seeing the Deerslayer's gun. While un-addling our horses, I took advantage of the occasion to show im my little .30-30 carbine. The Deerslayer looked at the ittle gun admiringly, handling and balancing the weapon ex-ertly. Then I handed him one of the bottle-necked car-idges with its metal-patched bullet, explaining apologetically hat while it shot pretty well and it seemed to hit mighty hard p to say 250 or 300 yards, I didn't know whether it would be dequate for deer or not. Mr. Hester looked at the cartridge with bulging eyes and whistled amazedly. Turning it over in his hand and eyeing it critically he finally said—

"Sure I reckon they wouldn't be a great deal of meat left fit to eat in a medium-sized deer after that thing plowed through him. Come on to the house and I'll show you what I get them with." Handing the cartridge back to me, he led the way to the cabin. Going straight to the antler rack above the fireplace mantel, he slid the antique-looking weapon from its deerhide scabbard. Turning, he handed it to me for examination.

I thrilled from head to foot as I hefted the ancient gun. At last I had the gun in my hands, the gun that was famous for its deerslaying reputation throughout this country!

It was a long, octagon-barrel single shot, with the old roll-ing-block breech which gave it the appearance of having two hammers. Pulling the hammer back, I opened the breech of the gun. It did not seem to be of very large bore. Turning it to the light of the doorway, I looked through the bore of the gun. It was bright and spotless inside and the rifling seemed to be in perfect condition. The rear sight was flat with a small V-notch in the center and the front sight lay close to the top of the barrel. All this I took note of as I eagerly scanned and hefted the old gun. Its feel was radically different from that of a repeating rifle of any type.

"What bore is it?" I finally ventured.

He handed me a cartridge from a box on the mantel board. "It's a .32 rimfire," he answered, "I use the .32 Long cart-ridges loaded with black powder. This new smokeless powder they've got out nowadays just don't seem to shoot right in it."

My mouth dropped open in amazement. I fingered the old rimfire cartridge with its soft lead bullet and black powder charge. The famous Deerslayer's gun! Here was something so different from what I had expected that I couldn't think what to say next.

"How far will it shoot?" I finally asked.

"Well," he said, his eyes glittering with the light of his gun talk, "I can cut a turkey's head off up to fifty yards with it. Though," he added apologetically, "I don't usually shoot that far at a deer. Most of my deer are killed around thirty or forty yards away. I always shoot a deer in the heart and every shot that's ever been fired from that old gun has brought in a deer or a wild turkey. That is," he added, "except the one I used on this b'ar here." He pointed to the huge bearskin on the floor. "He raised up in front of me about ten feet away, while I was crawling through a thicket after a deer, and I shot him through the eye. He just slumped down, dead as a hammer. Reckon if I had been using that high power cannon you've got, I would have maybe blowed the whole top of his head off. That little .32 bullet just lodged in his brain," he added, grinning. "It kills without messing up the meat too much and don't scare every varmint out of the country with its noise."

Riding down the Canyon next morning, I stopped at a little rivulet to water my horse. Slipping the little .30-30 carbine from its scabbard, I sat down on a rock, laying the short gun across my lap. I looked at it intently for some time. First thing I knew I was talking to myself, the way people do when they're alone a lot in the open.

"Considerin' everything in general," I said to myself, "I reckon after all, it ain't the gun so much as it is the man that's standin' behind it. Now take Six-Shooter Bill, f'r instance. He wouldn't shoot at a deer with this here pop gun on account of it's too small. He is a plumb sharpshooter with that old smoke-belchin' .45-70 cannon of his, and when he stampedes a deer off up the hillside anywheres around 200 or 300 yards why he just whams away and breaks its neck proper. But this here Deerslayer Hester now, he wouldn't want to spoil a good piece o' meat by shootin' it all up with this big .30-30 carbine of mine here—and maybe scare all the other deer plumb out of the mountains with the noise it makes. He's a *hunter!* He simply takes his little single-shot rabbit gun and stalks his game like a Injun. He pokes the muzzle of that old pea shooter right up agin' its ribs and plants that little pellet smack into its heart. After all, my own first gun was a .32 single shot like the Deer-slayer's gun."

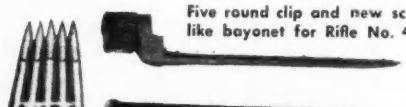
Well, my pony was standing there sorta lookin' at me with a doubting look so I patted the little repeater and slipped it back in the scabbard. Mounting, I rode on towards my com-ing winter's trapping, seeing in my mind's eye the little carbine doing its stuff on some of the fat venison of the north range.

I'd had proof again that whether the gun was too big or too little depended on the man that stood behind it. ♦ ♦ ♦

New British Rifle No. 4, Mark I*, evolved from the Lee-Metford adopted as a service arm in 1888

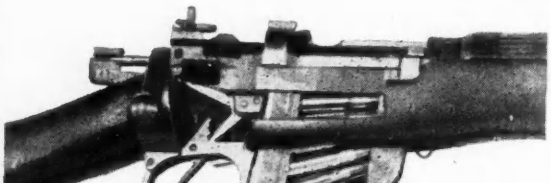
Action of rifle No. 4, Mark I*, showing milled bolt-removing groove in receiver runway and L-type sight

Early model of Rifle No. 4, Mark I (SMLE Mark VI) with micrometer rear sight and magazine cutoff



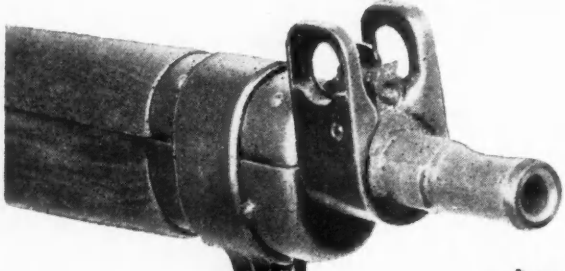
Five round clip and new screwdriver–like bayonet for Rifle No. 4, Mark I*

Cut-away of Rifle No. 4, Mark I*

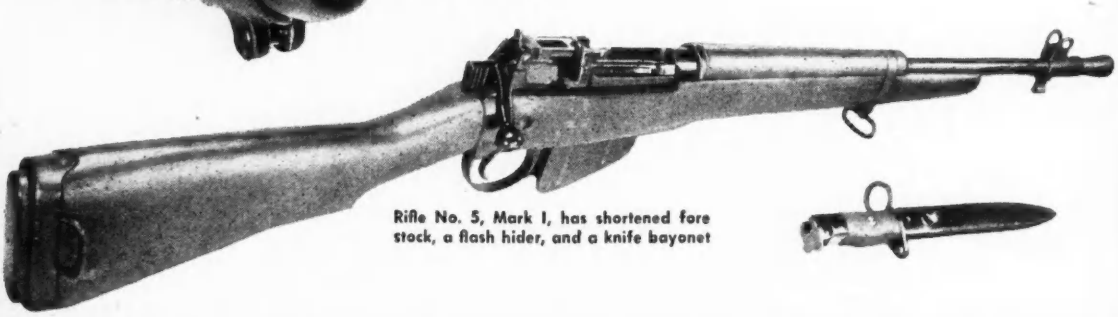


Cut-away of action of Rifle No. 4, Mark I*. Note band under bolt handle which separates the two-piece stock

Britain's Newest S



Close-up of muzzle showing bayonet locking lug and simplified sight guard



Rifle No. 5, Mark I, has shortened fore stock, a flash hider, and a knife bayonet

THE LATEST MODIFICATIONS TO THE LEE-ENFIELD WERE MADE TO GIVE THE BRITISH AN IMPROVED BOLT-ACTION RIFLE WHICH WOULD SERVE WELL IN THE SECONDARY ROLE THEY GIVE IT IN INFANTRY SQUAD TACTICS, TO SUPPORT THE LIGHT MACHINE GUN . . .

Service Rifles

By WILLIAM PIZNAK

THE BRITISH RIFLE No. 4 Mark I*, and Rifle No. 5, Mark I, essentially descendants of the Remington-Lee originated in the early 1870's before the advent of Springfields, Mausers, and Mannlichers, are the latest versions of the Lee-Enfield. To appreciate fully the evolution leading to the Rifle No. 5, Mark I, it is necessary to touch briefly upon some of the needs and events that have required alterations in the basic design of the original Lee-Metford since its adoption in the 1890's.

In 1888, the British adopted the American Remington-Lee action for their first small-bore, bolt-action, .303 caliber magazine weapon which superseded the Martini-Henry .45 caliber single-shot rifle. A compressed black-powder pellet of 70 grains was the propellant for the .303 cartridge (muzzle velocity 1,850 feet per second) in preference to smokeless powder, which at that time had not been perfected to such a degree that it could be relied upon for stability in storage without decomposing and causing explosions. Such explosions were quite prevalent in France where smokeless powder was used extensively.

The first British version of the Lee was known as the Lee-Metford Magazine Rifle, so called because of the Lee action and Metford-type of rifling used in it. The barrel had a twist of one turn in ten inches and seven shallow grooves. In 1892, cordite, a form of smokeless powder, was adopted as the propellant for the .303 cartridge since it had reached a satisfactory state of reliability. (Muzzle velocity for this cartridge was increased to 2,060 feet per second.) However, the erosive tendency of cordite caused the premature obliteration of the Metford-type of rifling which had been developed solely for the use of black powder. This condition was responsible for the change in rifling to the Enfield five-square groove system.

This new method of rifling, originated by the Royal Small Arms Factory at Enfield Lock, resulted in changing the name of the gun to the Lee-Enfield Magazine Rifle in the year 1895. (The Enfield Arsenal is comparable with our Springfield Armory.)

In December, 1902, the Short Magazine Lee-Enfield Rifle, better known as the SMLE, was adopted for all arms of the services. (Present service designation of SMLE is Rifle No. 1.) It is the Lee-Enfield Rifle with the barrel cut down by five inches. The receiver bridge was redesigned to permit loading of the magazine by a five-round clip. A special adapter was devised for use on the Lee-Metford and the Lee-Enfield Rifles to permit clip loading. Rifles so altered were known as Charger-loading Lee-Enfield and Lee-Metford Magazine Rifles.

There are three different Marks of the SMLE—each Mark with its star. (The latest pattern is Mark III*.) Each Mark and star is the result of minor changes made in preceding models, such as changes in sights, cocking piece, and the magazine cut-off. The mechanism remained in each case essentially the same as in the first model of the Lee-Metford.

Prior to World War I, the SMLE was severely criticized by military and arms experts as being mechanically unsound and unsafe because of its rear-type locking bolt. While they were theoretically correct, the .303 cartridge never developed sufficient breech pressure to justify any concern about this type of bolt locking. Other objections were: Hog-tying barrel to stock with nose cap which contained the front sight guards, bayonet lug, and false muzzle; featherweight barrel which was the lightest of all military rifle barrels; and the .303 rimmed cartridge which is inferior to our obsolete military .30-40 Krag cartridge. The first two reasons are responsible for the inaccuracy of the SMLE. As a direct result of this inaccuracy, the Ross and Pattern 1914 rifles were selected instead of the SMLE for sniping during World War I.

The British were dissatisfied with the SMLE and, prior to 1914, redesigned the Mauser rifle along Enfield lines, incorporating the finer features of the Enfield and using a new rimless .276 caliber cartridge (muzzle velocity 2,800 feet per second). This rifle was called the Pattern 1913. It is often confused by Americans with the Lee-Enfield because the British call it the Enfield to differentiate between it and the SMLE.

Upon the outbreak of World War I, large contracts for the manufacture of the Pattern 13 were let with the United States' arms companies, Remington and Winchester. It was to be manufactured in .303 caliber instead of .276, for which it had been originally intended, since further development had been made in the .303 bullet from a round-nose ball weighing 2.5 grains (muzzle velocity 2,060 feet per second) to a 174-grain spitzer bullet known as Mark VII (muzzle velocity 2,440 feet per second). Although the Mark VII, .303 caliber cartridge was inferior ballistically to the .276, it had superior stopping power and was, therefore, preferred. Because of this change in caliber, the rifle was named the Pattern 1914. (Present official service designation is Rifle No. 3.) This rifle is identical with our 1917 Enfield except for the caliber and the omission of the long-range auxiliary folding peep sight located on the left side of the stock.

Before the American factories could supply Pattern 14 rifles, the British were able to manufacture the SMLE in sufficient quantities. Contrary to all expectations, the SMLE proved itself unsurpassed for trench warfare, thereby relegating the modern Pattern 14 to the secondary position of reserve weapon—for sniping purposes and also for the arming of the Home Guard. It is said that the Pattern 14 rifle never saw service at the front as an infantry weapon.

Although the Pattern 14 was used extensively as a sniper's rifle due to its superb accuracy in comparison with the SMLE, it had two major faults: first, noninterchangeability of some of the component parts of the rifles made by Remington and Winchester; second, the magazine and bolt were originally designed for a rimless cartridge and would, therefore, frequently jam when the .303 rimmed cartridge was employed. The difficulty was caused by the rim of the cartridge upsetting the alignment of the cartridge in relation to the bore while being

fed toward the chamber from the magazine. Recently all Pattern 14 rifles authorized for service in the British Armed Forces were altered to remedy this defect. The modification consisted of lengthening the left lug of the bolt and recessing deeper the rear barrel face to receive the elongated lug. All rifles so revised were stamped Mark I*.

At the start of World War I, the British were short of ample supplies of rifles for their armed forces and were compelled to utilize, in addition to the SMLE, the Martini-Henry, Lee-Metford, Lee-Enfield, and Ross rifles. Also for this purpose, large quantities of Arisaka rifles were purchased from the Japanese.

Except for caliber, British Pattern 14 is identical with our M17 Enfield

Short Model Lee-Enfield (SMLE), adopted in 1902, has barrel cut down five inches and the receiver bridge redesigned to permit clip loading

Having learned their lesson well, the British set about modernizing the SMLE and endeavored at the same time to improve its accuracy. While it is now a simple rifle to manufacture, it must be remembered that the SMLE was designed when mass production was virtually unknown and it had, therefore, many frills unnecessary to efficient operation. These were subsequently eliminated by production engineers. The receiver, for example, became a clean, flat, square surface of greater strength and rigidity, as indicated by the photograph.

A heavier barrel of two pounds, nine ounces was substituted for the earlier one, weighing only two pounds, two and one-half ounces. The complicated nose cap was discarded and a simple metal fore-end band put in its place. This allowed for a free-floating barrel, increasing the accuracy and eliminating the tricky stock bedding and packing required for proper barrel fit in the stock, as was the case with previous models. Also, a new type of micrometer aperture rear sight (Mark I) located closer to the eye on the receiver bridge was devised.

A new bolt-retaining arrangement was conceived, making it impossible for the bolt head to spring out of alignment while being operated rapidly. On the right receiver runway on which the bolt head guide lug rides, a raised groove in the form of a square seven was machined the entire length of the runway up to the bolt-retaining catch. This groove engaged a corresponding groove in the bolt head lug. The operation for removing the bolt remained the same, namely: Drawing the bolt to the rear with the bolt retaining catch depressed by hand, pushing up the bolt head, and thus removing the bolt.

A new quadrangular bayonet was devised, eight inches in length, cruciform in blade section like that on the French Lebel. The bayonet was secured to the muzzle of the rifle by two lugs diametrically opposite each other on the side of the barrel about one inch from the muzzle. These lugs engaged the turning lock on the bayonet. The bayonet resembles outwardly the United States Civil War and Russian bayonets.

This rifle was issued for trial in 1929 and was designated Rifle No. 1, Mark VI. When thousands of this pattern were manufactured in 1930-31, the name was changed to Rifle No. 4, Mark I. It passed the test with flying colors. However, because of the depression and since military appropriations were then at their lowest, the designs for the No. 4, Mark I, were filed away pending some future emergency. The emergency arose when World War II began. Immediately thereafter, the SMLE, Mark VI, was rushed into production and named the Rifle No. 4, Mark I. Contracts for the manufacture of huge numbers of this rifle were let in the United States and Canada. All machinings not affecting the operation of the weapon were held to a minimum, leaving the weapon with a rough finish.

This brings us now to the Rifle No. 4, Mark I*, which is the Rifle No. 4, Mark I, with all its peacetime ornamentations discarded, accent having been placed upon mass production. Its modifications are: Omission of the cut off, stacking swivel, butt disc, and bolt-retaining catch. In place of the catch a slot was milled out on the receiver runway about one-half inch from the forward end of the runway to correspond with the width of the bolt head retaining lug. This simplified the bolt removal to the following operation: Drawing the bolt back so that the bolt head retaining lug aligned directly with the slot in the runway, pushing up the lug, and removing the bolt completely.

A new rear aperture sight without windage similar to the L-type used in the United States Carbine was employed. The L sight is set for 300-600 yards. When the rifle is sighted with the bayonet attached, the trajectory is naturally affected by the increased muzzle weight. For instance, when firing with bayonet attached, the 300-yard sight is correct for 400 yards. The 600-yard sight without bayonet is proper for

CHARACTERISTICS OF BRITISH SERVICE RIFLES

	Lee-Metford Rifle Mark I*	Lee-Metford Carbine Mark I	Lee-Enfield Rifle Mark I	Lee-Enfield Carbine Mark I	SMLE Mark III	Rifle No. 4 Mark I*	Rifle No. 5 Mark I
Length of Weapon	4 feet 1½ in.	3 feet 3 5-16 in.	4 feet 1½ in.	3 feet 3 5-16 in.	3 feet 8 9-16 in.	3 feet 8½ in.	3 feet 3½ in.
Weight of Weapon	9 lbs. 8 oz.	7 lbs. 7 oz.	9 lbs. 4 oz.	7 lbs. 7 oz.	8 lbs. 10½ oz.	8 lbs. 15 oz.	7 lbs. 2½ oz.
Length of Barrel	2 feet 6 3-16 in.	1 foot 8¾ in.	2 feet 6 3-16 in.	1 foot 8¾ in.	2 feet 1 3-16 in.	2 feet 1 3-16 in.	1 foot 6.7 in.
No. of Grooves	7	7	5	5	5	2	5
Depth of Grooves	.0045 in.	.0045 in.	.0065 in.	.0065 in.	.0058 in.	.0058 in.	.0065 in.
Rate of Twist	Lefthand, 1 turn in 10 in.	Lefthand, 1 turn in 10 in.	Lefthand, 1 turn in 10 in.	Lefthand, 1 turn in 10 in.	Lefthand, 1 turn in 10 in.	Lefthand, 1 turn in 10 in.	Lefthand, 1 turn in 10 in.
Muzzle Velocity (ft per sec)	1850	1725	2060	1940	2440	2440	2150
Magazine Capacity	8	8	10	10	10	10	10
Stock	2 piece	2 piece	2 piece	2 piece	2 piece	2 piece	2 piece

anges of 500 yards or over, with the shooter making the ecessary allowances in sighting for increases or decreases in ange. In 1942, the 300-600 yard Mark II rear sight was eclared obsolete and a simplified type of tangent rear sight Marks III and IV) replaced it. It is somewhat similar to e original micrometer sight (Mark I), but is made by stamp-gs insofar as possible, and the aperture is retained in position a simple spring-loaded catch on the right side which engages

Rifle No. 4, Mark I*, has comparatively few component parts and a clean, smooth external design. That is a draw-string cleaning outfit and oiler below butt of gun

n a series of slots on the sight bracket. The only difference etween the Mark III and IV sights is a change in the design f the catch.

Through 1943, this rifle had the new two-groove rifling hich simplified considerably the manufacture of gun barrels. This system is presently being used for our own rifles. In iring at 200 yards, the writer was consistently able to keep ve shots within four-inch groups. Close examination showed hat the recovered bullets were not deformed by the rifling in ny way, indicating that there is nothing lopsided about the wo-groove system. However, the British Government de-ided in 1944 to discard the two-groove system in favor of the ld rifling of five grooves.

Specifications of the rifling are: Width—.0936 inch plus 003 inch; depth—L-.313 inch, H—.319 inch; the bottom dge of the groove has a .004-inch radius maximum, both rooves being diametrically opposite in the bore. The twist is efthand, and one turn in ten inches.

The bayonet blade has been further simplified from the uadrangular pattern to the circular spike with the end flat-ened, resembling the blade of a screw driver. The length re-mains the same. This bayonet is similar to the rod type used n our Models 1884 and 1888 .45-70 rifles and the first type f 1903 Springfield. The idea is that lightness and handiness ompensate for loss in reach, thus enabling the user to penetrate his opponent's guard and thrust home in a vital spot. A bayonet of the screw driver type can be as deadly as the knife type, if properly handled.

The standard service cartridge of today is still the Mark VII. Muzzle velocity is about 2,440 feet per second (comparable ballistically with our .30-40 Krag). Cordite powder is retained as the basic propellant. Cartridges produced in the United States for this caliber are loaded with nitro-cellulose powder and there has been a noticeable tendency on the part of British factories to employ nitro-cellulose powders also. The letter "Z" stamped on the base of a cartridge denotes a nitro-cellulose load.

From the sectional drawing, it will be seen that the .303 bullet has a double core with a jacket of cupro-nickel (alternates: steel coated with gilding metal, or steel coated with cupro-nickel gilding metal). The fore-end cone-shaped core can be of either aluminum, fiber, or plastic, and the base of lead-antimony alloy or lead-antimony tin. The cannelure may be knurled or plain. These alternates were provided to ease production. Weight of bullet: 174 grains. The purpose of the double core is to create a bullet with sufficient mass to give greater striking power (comparable with the round nose Mark VI cartridge which resembles our Krag bullet) combined with the finer ballistic qualities of the pointed or spitzer bullet. The use of lead for a single core would have increased the weight of the bullet to around 200 grains, thereby causing a substantial loss of muzzle velocity. The idea occurred that by utilizing a double core of different weights, the desired weight of bullet for the greatest ballistic efficiency could thus be obtained. Lead-antimony alloy and aluminum were chosen because of their ready availability. Fiber was selected as a substitute for aluminum should aluminum become scarce. Samples of this cartridge are, therefore, found to contain lead-antimony alloy, aluminum, or fiber for cores.

The bullet behaves fairly well in flight under normal conditions. But under the influence of strong cross-winds, it becomes unbalanced and, when striking the target, it keyholes, indicating a tendency to tumble. This is due to the center of gravity being displaced too far rearward by the lighter conical tip.

The latest design of the Lee-Enfield is the Rifle No. 5, Mark I. It was introduced early in 1945 and was developed in 1944 for fighting in the Far East, where it is essential that equipment be the lightest possible. Practical use in the field has proved it highly successful and it is currently the only rifle being manufactured. The transitional changes from the Rifle No. 4, Mark I*, to the No. 5, Mark I, are:

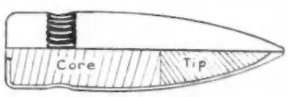
A. Barrel was lightened and shortened by 4.5 inches and a flash hider added.

B. Butt was shortened, and a rubber shoulder pad was added to absorb the extra recoil.

C. Forward part of stock fore-end was removed so that the rifle has the appearance of a commercial sporting rifle.

D. Cuts were made in the body to reduce the weight.

The Mark I sight is to be fitted but will be sighted to 800 yards only. The Mark III or IV sights will be found on some rifles since insufficient Mark I sights were available in late 1944 and early 1945.

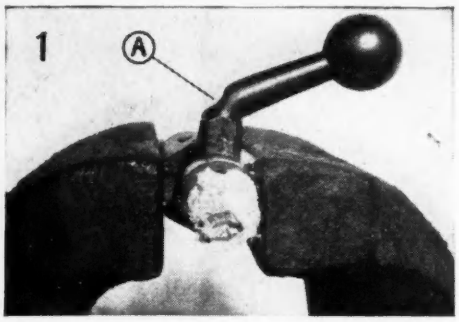


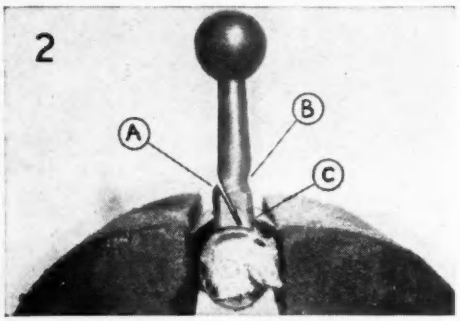
Double core of .303 Mark VII bullet contains antimony alloy and tip of light-weight aluminum or fiber filler

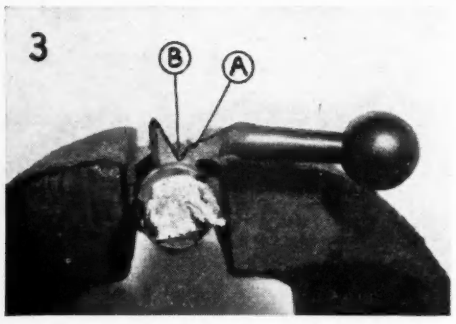
The bayonet for this rifle is the No. 5, Mark I, which is very similar to the SMLE knife-type bayonet, the loop being situated around the rim of the flash hider.

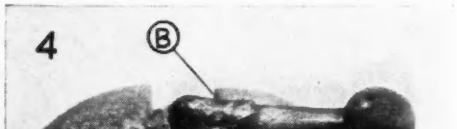
Perhaps this analysis will explain why the British are reluctant to adopt a semiautomatic arm: The nucleus of the British infantry squad tactics consists of the light machine gun, with the rifle assigned the supporting role. The light machine gun is depended upon for fire power, and the Lee-Enfield, which can be manually operated faster than any other bolt-action rifle, supplies the adequate coverage demanded by the secondary role.

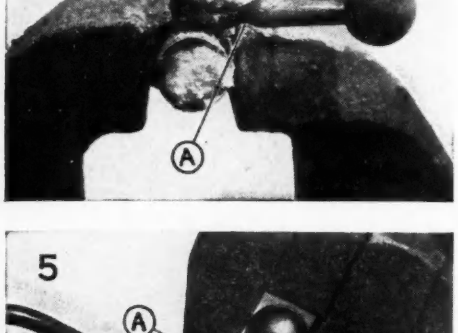
Because of this, the British are reluctant to abandon the bolt-action rifle which functions under the more adverse conditions for the sole advantage of increased fire power furnished by the semiautomatic rifle. ◆ ◆ ◆











this business of

bolt handles

by charles golueke

ONLY A FEW YEARS ago altering a rifle bolt to clear a scope sight was a simple operation, and seldom called for more than dressing down the bolt handle near its base. With the advent of the large-diameter scopes made both in this country and Europe, together with mounts designed to bring the scopes down as low as possible on the receiver, altering bolt handles to clear them has become a major operation.

The procedure explained here has been evolved more or less by the trial-and-error method. It allows for an extremely low mounting if required, but does not call for cutting off the handle completely or forging, with its resultant danger from extreme heating of the bolt.

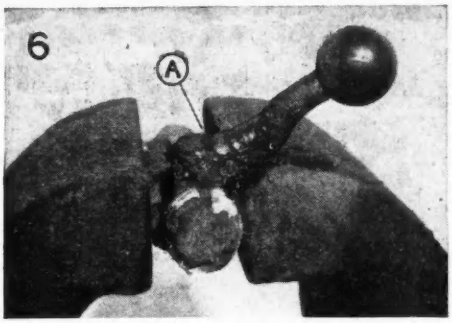
When the handle is cut off entirely and welded in a new position, the process calls for the most skillful of welding in order to give strength where it is most needed. The process explained here leaves the finished job very strong because that portion of the bolt handle on the bottom and next to the bolt proper remains in one piece and the weld acts as a brace. This is the weak point in one that has been cut off and welded. Those I have seen broken off started to break first in this spot. Another advantage of the present method is that there is no change in the bottom of the bolt shank where it bears against the receiver because no welding is done at that point. In most cases a cut in the receiver of about ⅛-inch depth is sufficient for fitting the bolt handle.

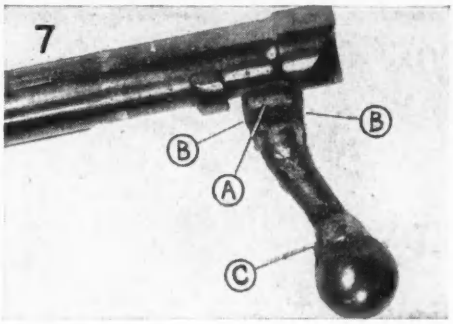
Since so many Mauser actions are being worked over into custom sporters, we will use this action to demonstrate the procedure.

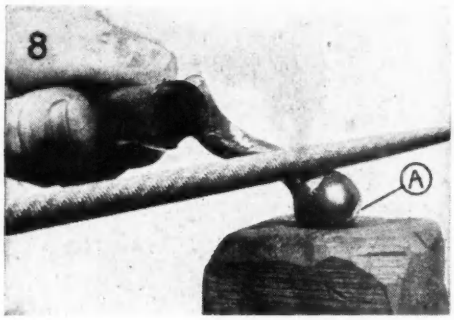
Before starting the alteration, make yourself a jig to hold the bolt firmly while bending and welding. You can use almost anything that will give you two parallel, straight sides for clamping in the vise. The one I use is made from a hexagonal rod-coupling for a ⅝-inch rod. I had the threads reamed out to give me a smooth hole ⅝ inch in diameter—the approximate diameter of any bolt you will have to alter. A 1 x 4-inch piece of square stock with a ⅝-inch hole bored through the center should be ideal. Cut it in half lengthwise with a hacksaw, then make a notch at the rear of the right half to take the safety of the Mauser. Now fit the two halves together around a Mauser bolt and mark the top of each half for widening to allow for the rib which is on the Mauser bolt (except a few late models) to protect the extractor. Widening this cut on each side near the rear of the first one will allow for the safety lug on the Springfield. Since there are no projections on the Enfield bolt, and the M54 Winchester has one which rides in the groove you cut for the Mauser rib, you now have a jig that will handle any of the bolts you are likely to work on.

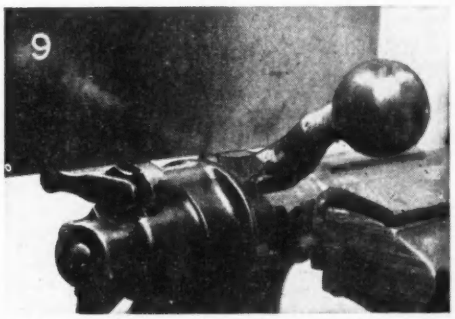
The first thing to remember is that you are dealing with a gun part that may be called upon to withstand very high pressures. It was carefully heat treated at the factory and you should in no way disturb this heat treatment, especially near the forward end. Too much heat in this operation may also warp the bolt so that it will not fit properly. For this reason, use an electric-arc weld rather than acetylene. It heats only where it is welding and if it is done slowly, very little heat is transmitted to the rest of the bolt. If done right the only part which is softened by the heat is the base of the bolt shank itself.

You can rig up a running-water setup for cooling such as Clyde Baker describes in his book, but this is not necessary if you are careful. Take a couple of handsful of asbestos and soak the stuff up well with water. Plug up most of the inside tightly with this mixture and then stick a big gob









photographs continued on next page

over the end of the bolt to protect the cocking cam. Keep the leftover pile and use it to cool the end of the bolt proper after each bead the welder makes across the job. *Don't cool the bolt too much.* The work must be warm in order to get a good weld, free of fissures and bubbles. Don't trust this job to any but the most expert welder, one skilled in fine work. A ruined bolt can be expensive, especially when it has already been fitted by a good gunsmith. The man who did the welding in the accompanying photographs is Walter Boehm of the Green Bay Welding Company. He is skilled in many types of welding and has successfully welded such small parts as extractors and firing pins when these parts were unobtainable. It is very seldom that his work has the slightest pit in it when dressed down, and never any serious cracks or flaws.

The first step is to completely strip the bolt, including the extractor, although it is not necessary to remove the extractor ring. After packing with wet asbestos, clamp the bolt with its holding jig securely in a good heavy vise with the bolt handle projecting past the end so you have room to work on it. This is shown in the first illustration.

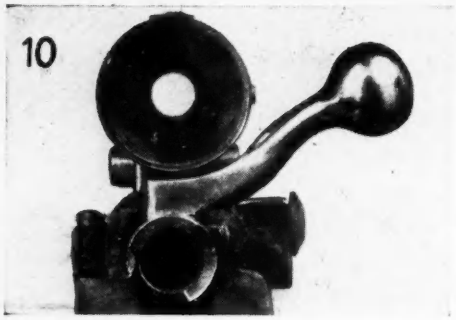
To get the subsequent bending properly done you first straighten the handle, unless it is one of the earlier Mauser bolts which was built straight in the first place. To make this first bend easier, grind some metal off the hump at "A" in Figure 1. Grind nearly a third of the way through on the Springfield and commercial Mauser bolts, which have thick shanks at this point. Using an acetylene torch, heat rapidly at "A" where the bend is to be made. As soon as you have a good cherry red, take the torch away and quickly straighten the bolt handle until it sticks straight out from the bolt. You can use a large monkey wrench, a special wrench built for the purpose, or even hit it with a heavy hammer. If you have a bolt knob with engraving or knurling, use a heavy lead or copper hammer to avoid damaging it. Protect such work with a sheet of asbestos when welding. Don't chill after this bending, but allow the handle to cool slowly, thus annealing the part you will be sawing in Figure 2. Should you be working on one of the late Springfield bolts, pack it in dry asbestos and allow it to cool very slowly. That carburized surface is hard to anneal and raises cain with the best saw blades if left hard.

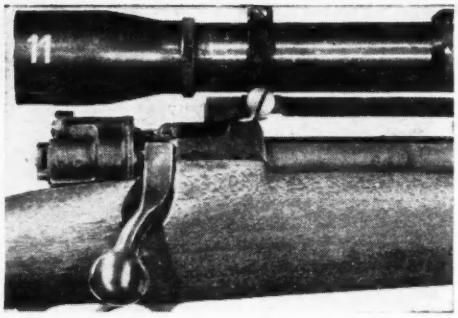
Now make a cut as shown in Figure 2, starting well up on the handle, so as not to leave a thin edge at "A" which might burn and round off when welding. Let it go diagonally down to the body of the bolt about ⅛ inch from the bottom of the bolt handle. Use a good blade and saw slowly with plenty of pressure. If you saw too fast in this tough metal, you will strip the teeth on most blades. Note the hollow spot at "B" caused by straightening the sharp bend on this handle.

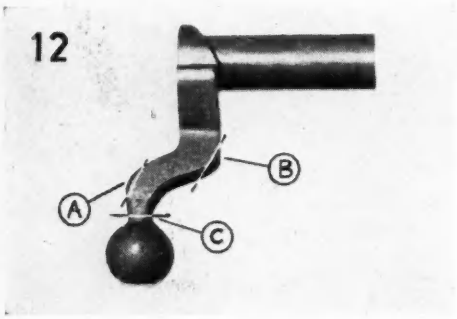
Now heat again with the torch at "C" and bend down to a full 90 degrees, as illustrated in Figure 3. This gives the sharp bend necessary for a low scope but still leaves the handle joined to the bolt at "A" where the greatest strain will always be. Now the actual welding begins. For welding rod use a nickel steel if you wish but it is not necessary. Also, it often leaves hard spots which are difficult to work when finishing. Boehm has had best results with 1/16-inch No. 90A Airco alternating-current shielded arc-welding electrodes, using an amperage of 60 to 80 and voltage of 15 to 20. This gives a smooth weld, free of imperfections. He works slowly, making his first bead in the notch at "B" in Figure 3.

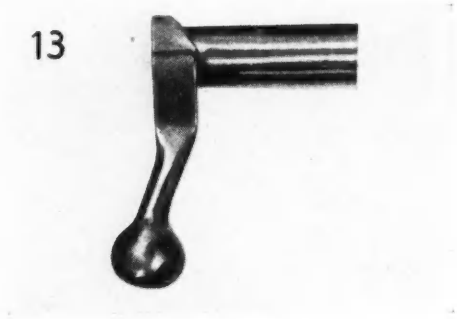
After this and each subsequent bead across the work, the slag should be carefully chipped away, leaving bare metal upon which to build the next bead. Run the bead over a little on each side and pile extra metal on top sc you will have enough to allow for shaping. With the welder taking his time, the work is heated very little except in the immediate welding area.

Figure 4 shows the welding completed except for the touching up at "A" which will be done when the bolt is turned over. The handle is now ready to bend to any shape desired. I prefer a double bend which takes the handle out a little and does not require removing so much wood from the stock. After first making sure the bolt is securely clamped









CHARLES GOLUEKE is a practicing gunsmith of Green Bay, Wisconsin, and was a pupil of the late Alvin Linden. As a hobbyist photographer, Golueke is particularly well suited to write and illustrate practical how-to-do-it articles for the home gunsmith. RIFLEMAN *readers will see more of his articles and photos in future issues.*

in its jig, apply the torch at "B" and work it around the sides. Heat closer to the bolt proper than where you wish to bend because the bolt handle will bend where it is thinner anyway. If you heat farther toward the knob, your bend will probably be too far out. This operation requires the most heat of the whole procedure. Have some wet asbestos ready and as soon as you make the bend in Figure 5, take the bolt out of the jig and pack the wet asbestos around the bolt itself to cool it. Don't get any on the red-hot handle because the metal will harden and cause plenty of strong language later when you have to shape with a file. This cooling is done to keep the heat present in the handle from spreading into the bolt. The bolt should not be heated in this operation. If it has turned color, you did not work fast enough.

When you make this first bend, bring the handle up farther than you want it to be when finished and also back about 30 degrees. As soon as the bolt has cooled somewhat, clamp it again and heat at "A" in Figure 5. Bend down until you have it in the proper position and also forward a little if you like that shape of handle. Note the lump of wet asbestos over the end of the bolt in this photograph. This was removed for a clearer view in the preceding pictures. It is necessary to keep the cocking-cam bearing surface cool.

The finished handle should measure about 1 to 1¼ inch from the center line of the action to the inside of the bolt knob when in the down position, and should not be over 2⅜ inches long measured from the end of the knob to the nearest point on the bolt body. Rifles with a shallow magazine require shorter handles. In no case should the end of the bolt project below the bottom stock line if you want a nice-looking rifle.

If the handle is too long after bending, cut off the knob and drill a centered hole the same diameter as the shank. Fit the shank in this hole, check your measurement, and if the handle is short enough, have the welder run a bead around the base of the knob and your welding is finished. If you like a pear-shaped knob, have this corner filled in even though the handle requires no shortening.

Figure 6 shows the bending completed and the handle ready to be dressed down. The bolt must be removed from the jig for welding the pear-shaped knob.

Figure 7 is a view of the bottom side after the knob has been welded. Observe the clean surface at "A" where the bolt handle contacts the receiver, and also the extra metal on the sides at "B." "C" shows build-up for pear-shaped knob.

The next operation is the finishing. Much excess metal can be roughed off on a grinding wheel but the final work should be done with a file. Check the height of your scope and grind off at "A" in Figure 6 until you have about 1/16-inch clearance between bolt and scope. If you have an extremely low mount, you can allow less but be sure there is enough so that the bolt handle won't hit the scope after wearing a little. A good yardstick is to make it the same height as the safety ring in Figure 9. All standard mounts allow for clearing this ring on both Mauser and Springfield.

Figure 8 has the handle roughed to shape and shows how a rat-tail file can be used on an angle to give a pleasing curve to the pear-shaped knob. Keep working around the knob so as not to get flat spots. A neater shape can be had by grinding some off the end of the knob as in "A." Now file off any other excess metal, polish with emery cloth, and finish on a polishing wheel. To get round surfaces on the handle and knob, use strips of cloth and work with the same motion you use when polishing your shoes.

Figure 10 shows the north end of a Mauser looking south, showing good clearance between bolt handle and scope, with plenty of metal still remaining where the strain is greatest. By comparison with Figure 3, you will see that fully half the thickness is the original handle. The scope is a K4 Weaver on a Redfield Jr. mount.

Figure 11 is a side view of the fitted bolt in the gun. When fitting the bolt, it will be found necessary to cut into the receiver. Go slowly because if you cut too far your bolt will close past the locked position. A fine cutting wheel, about ⅛ x 4 inches, works well for this operation. Remove only that part of the receiver in which the bolt handle will recess. Spot with Prussian blue and check *(Continued on page 34)*

FOR YOUR PISTOL RANGE:

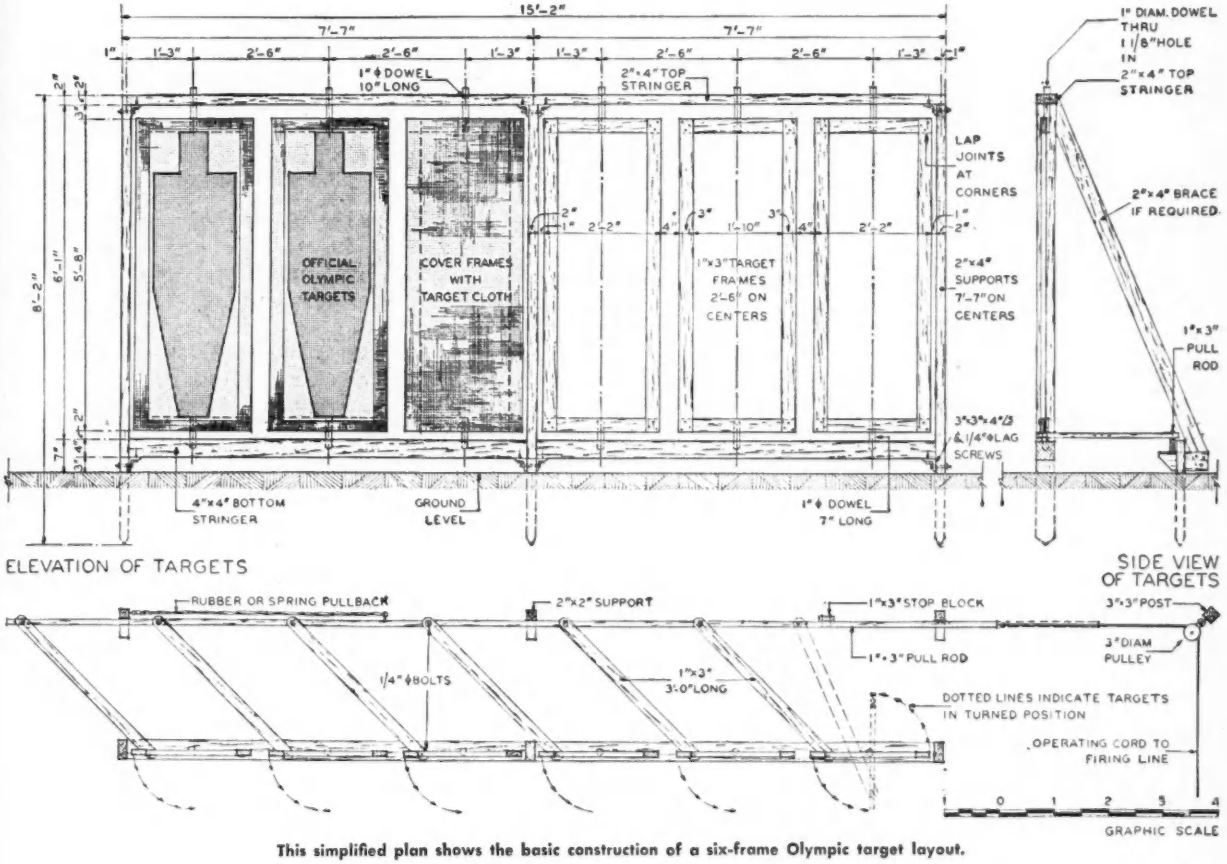
OLYMPIC TARGETS

WITH OLYMPIC TRYOUTS IN the offing and, come summer, the Olympic events themselves, pistolmen already are wondering about the necessary practice. It will take more than additional rounds of shooting on standard targets to ready a man for tryouts on the tough "bobber" course called for by the Olympics. Best answer, of course, is for local club members to get together and build their own Olympic practice setup.

As shown in the drawing on this page, improvising an Olympic bobber range is not as difficult as it may sound—particularly if your range is already equipped with regular turning pistol-target frames. A few ranges may accommodate the Olympic silhouette target on the frames already in use. Most will need an additional, but quite inexpensive, setup if they wish to afford practice for members in the Olympic rapid-fire match. The drawing includes all necessary details and has deliberately been simplified to allow maximum ease of adaptation to existing range facilities .

The Olympic matches which will be fired in London this summer require five targets for each competitor. However, International Shooting Union events use targets in banks of six. It is suggested that clubs use the larger number, and simply remove one silhouette when practicing over the Olympic course.

It will be noted that the drawing shows a setup employing the simplest and least expensive means of edging the targets—a pull cord working against the tension of a rubber or spring pullback which will return the targets to their "front" position when the cord is released. This system can easily be elaborated by clubs wishing a permanent Olympic target installation. It should be remembered that interest in Olympic and International Shooting Union competition is almost certain to grow during the next few years. A number of U. S. tournaments will conduct Olympic tryouts this spring as a part of their competitive program. The international events themselves will be held alternately, two years apart, with Olympic and International Shooting Union matches fired once every four years. There is also the strong likelihood that similar events will become a part of future National Matches.



This simplified plan shows the basic construction of a six-frame Olympic target layout.

As this type of match, and the equipment used—target frames and the targets themselves—is new to most American shooters, there will undoubtedly be developments and improvements made in the setup by any club which builds an Olympic range. If your group decides to put in a bank of Olympic targets and you get some ideas that are better than the ones shown here, let us know. We'll incorporate them in future drawings for the benefit of other clubs.

For tryout locations and data on the targets used in Olympic competition, see "Olympic News," page 22, this issue.

NRA Annual Report

(Continued from page 14)

Department to issue and sell to properly organized civilian shooting groups such arms, ammunition, and target range material as the Secretary of War might, from time to time, make available. Truly the tree planted at Creedmoor was spreading its roots and branches in an ever-widening circle!

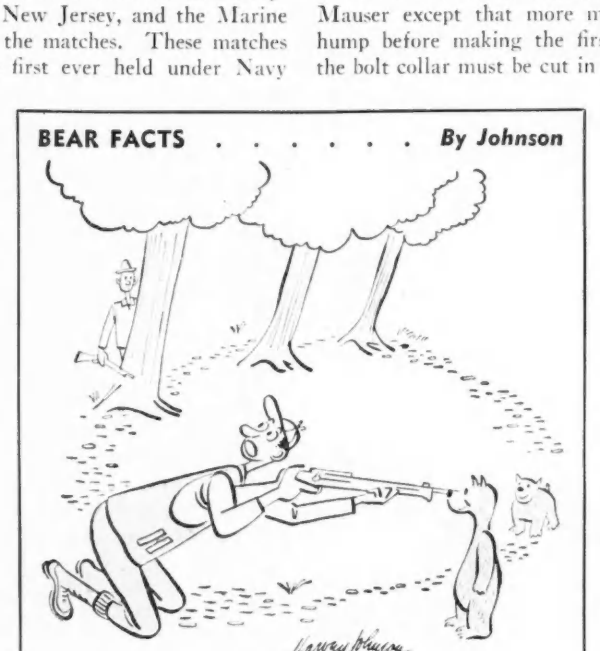
1917 America entered the war before the broader plan could be put into operation. No National Matches were held in 1916, '17, or '18.

As always, war showed clearly the tragedy of the popular conception of America as a "Nation of Riflemen." Aside from the Regular divisions and some of the National Guard divisions, the rifle meant little more to the soldier than a handle for his bayonet. Whole units went into action without instruction in marksmanship. Men were sent up as replacements who had to be shown how to load their rifles after they were in front-line trenches. General Pershing spared no words in condemning such "training" procedures at home. Under the driving lash of his dispatches the Army finally organized a rifle-training group for the purpose of teaching officers of the Army how to instruct recruits in the principles of rifle marksmanship. Composed of officers who had learned the hard way, through training Regular Army, National Guard, and civilian shooters to compete successfully in the National Matches, this group set up in business at Camp Perry. Came, too, the inclusion of the Small Arms Training School in the National Match program.

Overlooked by most were the facts that except for the activities of the National Rifle Association there would have been no National Matches, no officers with the "know-how," no Camp Perry range on which to operate!

1919 Occupied with demobilization, the Army was unable to conduct National Matches the first year after the war. But the Navy offered the facilities of its hastily-constructed range at Caldwell, New Jersey, and the Marine and Navy personnel to operate the matches. These matches were historic. They were the first ever held under Navy management. The .22 rimfire was given its first recognition as a "serious" target weapon by the inclusion of smallbore matches in the National Match program. But to those who shot there history was made by the worst shooting conditions ever encountered—before or since! Wind and rain, cold, mud, standing water, firing points hastily mounded-up above the flood waters and quivering under the tread of each passing rifleman—these things of themselves made "Caldwell" a never-to-be-forgotten name in the annals of American riflemen.

1920 Unnoticed at the time, Caldwell had marked the turning point in the National Rifle Association thinking. Following 1919 the changes in personnel and equipment were not so important as the changes in thinking. Inevitably under such conditions there are heated arguments. The old order gives ground grudgingly to the new. Discussion degenerates into wrangling. Tempers flare. There are threats of divisions. Some, uncompromising, do pull out and go their own way. During the decade 1920-1930, this was the pattern of Association meetings. But there was too much underlying unity of purpose for there to be ultimate disunity. The heated elements, pounded by strong leadership on the anvil of common sense, quenched in the bath of good sportsmanship, were welded into a National Rifle Association of America which, for the first time, was actually *national*—as to geography, as to classes of shooters, as to purpose and program. *(To be concluded.)*



Bolt Handles

(Continued from page 32)

the fit frequently. When the regular military safety will go all the way to the right and lock the bolt, you have cut deep enough. Make sure your safety is not worn or tampered with on the locking end (which is inside the bolt collar) because then it may lock before the bolt is completely closed.

One more operation is necessary for a finished job—hardening of the camming surface on the base of the bolt handle where it bears against the receiver when opening the bolt. Using a small tip on the acetylene torch, heat this edge to a bright cherry and quench in oil or water. Some bolt steels require more heat and some less, so you will have to judge what heat to give it by the type of steel in the bolt. Also, check the hardness of the cocking-cam bearing surface at the rear of the bolt. You should be unable to touch it with a file. Some are soft before you start, generally on one where somebody has bent the bolt previously and heated it too much. This surface can be hardened in the same manner. Properly done, only the surface will be heated and hardened.

The alteration on the Springfield is the same as for the Mauser except that more metal should be ground off the hump before making the first bend and a new groove for the bolt collar must be cut in the rear of the shank base when finishing the handle. It is not necessary to make the Springfield quite as low as the Mauser because of the higher receiver bridge which allows for passage of the bolt safety lug.

Figure 12 shows a simple alteration to make the Enfield bolt look less like an Enfield bolt. Grind off the corners at "A" and "B," heat and straighten. Then cut off the knob at "C," turn it around, place the shank in the hole that was on the end and weld. When bending at "A" apply the heat on the front edge of the handle so as not to stretch the safety latch recess at the rear. The heat in this operation is so localized that the camming surface is untouched.

Figure 13 shows the finished bolt handle. ◆ ◆ ◆

THE HOWS AND WHYS OF THE NEWEST THING IN OPTICS . . . BY THE MAN WHO DEVELOPED THE "HARD COATING" PROCESS

THOSE COATED LENSES

By DEAN A. LYON

AMONG THE MANY WARTIME developments which were released for civilian use after having been shrouded in secrecy during hostilities, the process known as "lens coating" has attracted more sustained attention from the public than most of the other more spectacular developments. The enthusiasm stems from the fact that the public too, is as much interested in obtaining the best possible performance from its binoculars, riflescopes, and camera lenses, as were the leaders of the Armed Forces during the war.

"Lens coating" is the name which has been given to a process for applying an exceedingly thin, transparent film of magnesium fluoride to the surface of a lens in order to reduce the reflection of light therefrom, as well as to increase the transmission of light through the lens. In England, the process is known as "blooming" and a coated lens is said to be "bloomed."

The film on a properly coated lens is not quite four one-millionths of an inch thick. Inasmuch as the human mind finds it difficult to grasp the significance of such infinitesimal quantities, a few comparisons may make it clearer. The paper on which this article is printed is about .003 inch thick. Even this minute thickness, however, is almost 800 times thicker than the film on a coated lens. Or let us imagine this page is coated with a fluoride film of proper thickness. If the combination be magnified until the thickness of the paper becomes equal to the height of the Washington Monument (555 feet), the film will be equivalent to an 8½-inch snowfall at the top. Nevertheless, these almost insignificant films effected such a startling improvement in the performance of optical instruments that there arose during the war an entirely new industry employing several hundred persons. Expenditures for these films aggregated several millions of dollars per year in 1943-4. The Army alone coated about 600,000 square inches of lens surface every 8 hours at the peak of production.

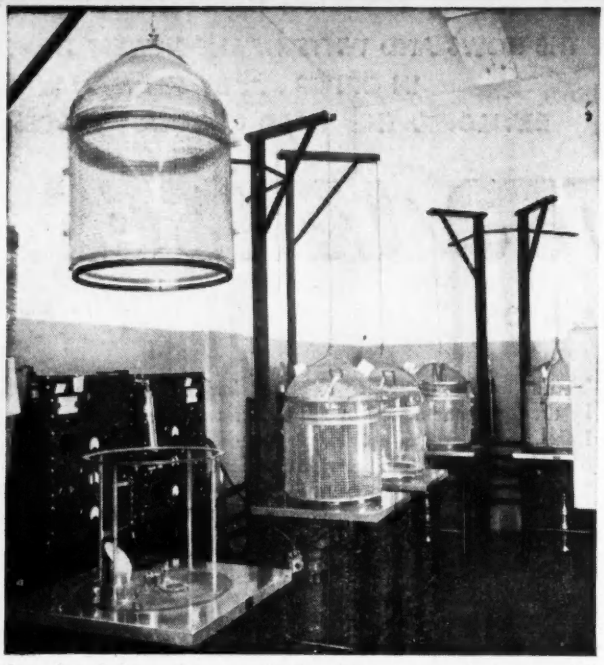
The reader will undoubtedly now be asking such questions as the following: Who invented coating? How are the films applied? Why does the film function as it does to improve the performance of optical instruments? What specific benefits are derived from coating? Perhaps most important of all, is it worthwhile for the sportsman to invest his hard-earned money in coatings for his riflescope, binocular, or camera lens?

The first observation that a thin film on a lens actually improved its performance was made half a century ago (1892) by Taylor, the famous English lens designer. To his astonishment, lenses which had been slightly etched by the long-time action of atmospheric moisture reflected less light than a freshly-polished specimen. He then discovered that similar films could be formed by a number of chemicals. The idea, however, was quickly buried in the literature through lack of interest. The same idea was re-discovered by Kollmorgen in this country at the time of World War I; and F. E. Wright, then on duty with the Army, clearly saw the application to military instruments. Popular prejudice against a process which formed any film on a lens was so strong, however, that it again sank into oblivion. Not until 1935 did Dr. John Strong of the California Institute of Technology devise an entirely new procedure for applying a film. Whereas the previous processes were chemical in nature, Strong's process was physical. He showed that if calcium fluoride was evaporated in a high vacuum and then condensed as a thin film on the surface of glass, the combination would reflect less light than the bare glass. Strong's method is the basis for the present-day process, although a few refinements have been added to make the film adhere tenaciously to the glass. It has also been found after much experimentation that magnesium fluoride, rather than calcium fluoride, provides the best film. Modern films are therefore generally made from this material.

Magnesium fluoride, when pure and in large crystals, is as transparent and clear as the finest plate glass. When ground into a powder as used for coating, it is white. It neither melts nor evaporates appreciably until it reaches a temperature of about 2700 degrees Fahrenheit. Hence, means must be provided in the coating machine to heat the fluoride to this tem-

Optical Coating Laboratory

Here, in an unretouched photograph, is a graphic illustration of one virtue of lens coating. Note the difference between center spot (coated) and the rest of the glass plate (uncoated)

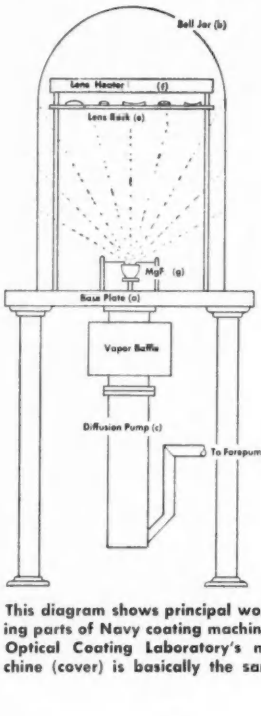


A portion of the coating room, US Naval Gun Factory, Washington, D.C. Here, in 11 machines, thousands of lenses, prisms, and windows in many hundreds of shapes and sizes were coated for the United States Armed Forces during the war. The machines were constructed by the author

perature in order to obtain a film on the lens or prism.

On this page a simplified diagram of a coating machine is shown. Its essential parts are a flat polished base plate about 2 feet square (a) mounted on legs or framework at about table top height; a Pyrex glass bell jar (b) about 18 inches in diameter and 25 to 30 inches high which rests upon the top surface of the base plate; a high vacuum pumping system (c & d) to remove all the air from the bell jar, mounted beneath the base plate; a suitable rack (e) inside the bell jar 15 to 18 inches above the base plate for holding the lenses to be coated; an electric heater (f) an inch or two above the lenses to heat the latter in order to insure a hard tenacious film; and a small quantity of magnesium flouride (g) with suitable electrical equipment to heat it to the vaporizing temperature. In operation, the space in the bell jar is first evacuated by the vacuum pumps so that the best possible vacuum is attained. The magnesium flouride is then heated to a white heat until it melts and evaporates, when it then streams out from its source in all directions within the bell jar and gradually forms a film on every surface it strikes—including the surfaces of the lenses. The process must be carried out in a high vacuum, not only to prevent chemical reaction between the air and the materials at high temperature, but primarily so that the vaporized fluoride can travel to the lenses without colliding with molecules of air which would stop it before reaching its destination.

One of the secrets which contributed to the success of lens coating was the discovery that the lenses themselves should be hot (about 400° F.) when the vaporized fluoride condenses on them. It is the function of the heater (f) to heat the lenses. When fluoride strikes such a hot surface, it produces a very hard, durable film which will withstand considerable abrasion and soaking in water and many chemicals without damage. A film which is formed on a cold lens surface can oftentimes be wiped off with a cloth and readily removed by soaking in water for a short time. Inasmuch as there is such a marked difference in the quality of the films produced by "cold coating" and "hot coating," the reader may have already noticed that advertisers often refer to their coated lenses as "high-temperature baked," "hard baked" or "hard fluoride baked" to draw attention to the fact that they are using the modern process of high temperature coating rather than the older and inferior pre-war "cold" coating.



This diagram shows principal working parts of Navy coating machines. Optical Coating Laboratory's machine (cover) is basically the same

When the operator is ready to apply a film, he holds a small fluorescent lamp above the lenses in the bell jar (see cover) and looks at the light reflected from the lens surface. As the film increases in thickness, the reflected light changes in color, beginning with very light yellow and progressing through yellow, brown, reddish-brown, pink, and reddish-purple. When the operator sees the latter color appear, he knows that the film has attained its proper thickness and the process is stopped. If he continues to apply a film beyond the reddish-purple, the colors go through deep purple, blue, blue-green and finally become green. All coated lenses which show blue-green or green reflections are badly overcoated. A green reflection indicates a film which has double thickness and is scarcely more efficient than an uncoated surface.

But how does the operator know that reddish-purple corresponds to the optimum thickness? The answer to this question involves optical principles which must be greatly simplified here for descriptive purposes. When light strikes the surface of the film, a small fraction of it is reflected while the remainder passes through the surface into the film. It then travels a short distance and arrives at the boundary between the film and glass. Here another small portion is reflected back into the film and travels towards the outer film surface, while the remainder crosses the boundary and proceeds through the body of glass. When the reflected wave arrives back at the top surface, it encounters the small portion which is being reflected from the top surface of the film. The manner in which these waves combine is determined by the thickness of the film. If the thickness is such that these waves add to, or augment one another, it is known as a "½-wave" film. If the thickness is such that the 2 waves tend to subtract from, or cancel one another, it is known as a "¼-wave" film. The physical significance is that in the first case, the film thickness is one-half a wave length of the light while in the latter case, the film thickness is only one-quarter of a wave length of the light. In lens coating, the elimination of reflection from a glass surface is desired and so it is obvious that a ¼-wave film must be used in order that the 2 waves may cancel one another.

Here the reader may ask why the elimination of reflection is desired. Reflection represents a loss of light energy. It does not go through a riflescope or binocular to help form an image. It can be demonstrated mathematically that if the reflection loss is eliminated, the energy which is thereby saved now goes through the instrument as useful image-forming light. The efficiency of the instru-

ment has thereby been improved since it now transmits more light. In technical parlance, its "light transmission" has been increased.

Inasmuch as ordinary white light—daylight for example—is compounded of light waves having many wave lengths, the wave length to be eliminated must be selected. The human eye is most sensitive to yellowish-green light which has a wave length of about .000022 inch. It follows logically that the film thickness must be adjusted so that the maximum amount of light of this wave length will be transmitted through the instrument in order to utilize the high sensitivity of the eye at this point. It can be concluded from the discussion in the preceding paragraph that this high transmission to yellowish-green light can be obtained by adjusting the film thickness for minimum reflection of this color. When this is done, all other colors corresponding to different wave lengths will be reflected more than yellowish-green since the film has a finite thickness and can be ¼-wave length thick for only one wave length. A reflected residue rich in blue and red remains, and together they appear reddish-purple.

This effect is illustrated graphically in the chart, where the straight line represents the reflection from an uncoated, clear glass surface. The fact that it is practically horizontal shows

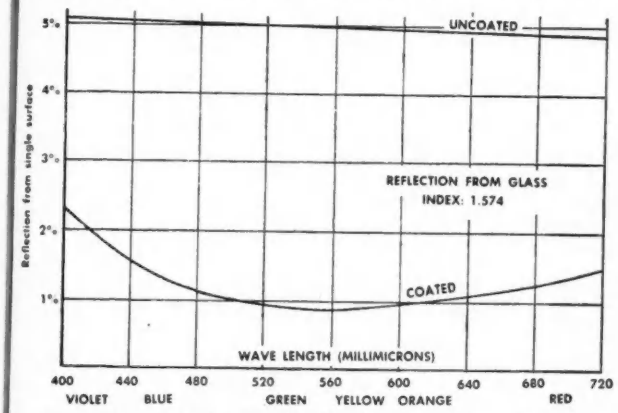


Chart showing relative loss by reflection of coated and uncoated surfaces. Right: The heart of a coating machine. Fluoride is packed into the crucible and then heated by radiation from the small spiral of tungsten wire.

that it reflects light of all colors almost equally well and therefore the reflected light has the same color as the incident light. The curved line shows the reflection from a coated glass surface. It should be noted that red and blue at the two ends are reflected more than the middle region where green and yellow lie. More important, however, is to note that the reflection from the coated surface at the optimum point is hardly more than one-sixth that of the uncoated glass. The area between the curve and the straight line is a measure of the energy which has been saved and is now available to increase the "transmission" of an instrument.

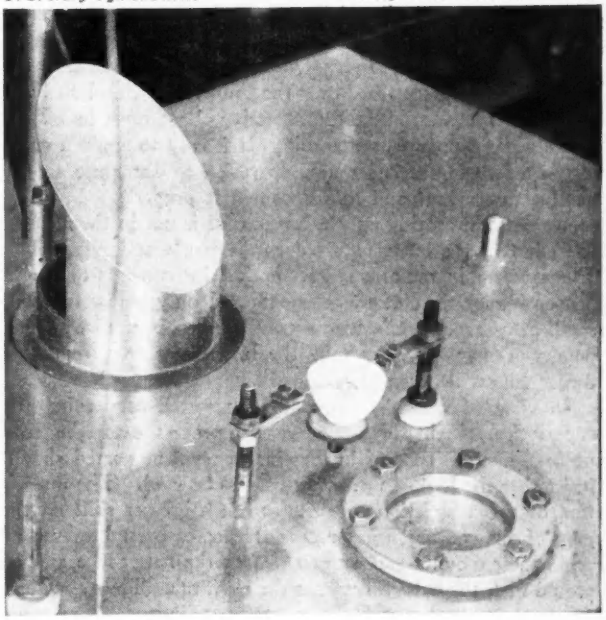
A single surface of glass reflects from 4 to 6 percent of the incident light, the exact amount being dependent upon the type of glass. It therefore transmits 96 to 94 percent respectively. Since it can never transmit more than 100 percent, it is readily seen that the coating of a single surface does not effect much of an improvement. Inasmuch as most optical instruments are made up of several glass elements, each of them having two surfaces, we must look for the big improvements in the multiple element systems where the coating will save 3 or 4 percent of the incident light at *every* surface. An

DEAN A. LYON was educated at Cornell and MIT. As the result of an investigation on very thin insulating films which involved high-vacuum evaporating techniques, the war found him at the US Naval Gun Factory, assigned to the task of developing lens coating. Lyon is the owner of the patent covering the high-temperature coating process which was adopted by the United States Armed Services.

exaggerated but practical example is a submarine periscope. This instrument has about 36 coated surfaces. Prior to coating, the light loss was so great that only 10 to 14 percent of the light entering the periscope finally reached the eye of the observer. Eighty-six to 90 percent of the light had been lost. After all surfaces had been coated, 45 percent of the light reached the observer. The transmission of the instrument had been tripled or quadrupled. The increased transmission enabled a submarine commander operating in the latitude of New York to use his periscope 30 to 45 minutes earlier in the morning or later at night. In far northern latitudes, it is reported that the useful period encompassed the full 24 hours at certain times of the year.

The sportsman is usually concerned with binoculars, camera lenses, and riflescopes. The majority of riflescopes have five elements, or ten glass surfaces. The light traversing a prismatic binocular also crosses 10 glass surfaces. The usual good camera lens has 6 surfaces. An increase in transmission of approximately 40 to 45 percent will result by coating all 10 surfaces of a riflescope or binocular, whereas the increase will amount to about 25 percent for a 6-surface instrument. It is not worthwhile to coat a single element lens such as is used

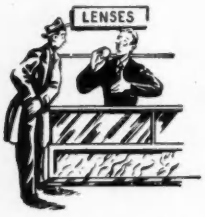
U. S. Navy Official Photos *Courtesy U. S. Naval Gun Factory*



in box cameras. In deciding whether to coat an instrument to take advantage of the increased transmission, the following considerations apply. In normal daylight all instruments will transmit sufficient light to the eye without any coating. The increased transmission is useful when light intensity is low, such as at dawn and dusk. Hence the sportsman interested in early morning and late evening activities will find that a coated instrument is a decided advantage.

Even more important than the increased transmission, however, is the improvement in clarity noted with coated lenses,

and contrast in the image which is the result of the lowered reflection losses. The light which is usually lost at the uncoated surfaces in an instrument merely reflects back and forth among the elements, and much of it finally reaches the eye as a diffuse haze which detracts from clarity and sharpness in the image. When all these reflection losses have been greatly reduced by coating, the improvement in clarity and sharpness of the image is remarkable. Fine details in the target become sharp and distinct. It is this substantial improvement in crispness of detail which is the basis for the favorable acceptance of coating, rather than the increased transmission. Increased transmission is of primary value when light intensity is low, but enhanced crispness of the image is present at all times and is particularly noticeable during daytime. The sportsman-photographer will find a remarkable improvement in his colored photographs.



Another beneficial effect of lowered reflection losses is the virtual elimination of "ghost" images and "flares" which result when a brilliant source of light is in the field of view. Thus it is possible to view objects which are almost directly in line with the sun without experiencing flares or ghosts.

It must not be concluded that the increased transmission and clarity of image will in any way assist in seeing objects obscured by fog. Coating is not a fog penetrator. It merely corrects for optical deficiencies within the instrument itself.

Many new instruments are being coated by the manufacturers, but the majority of those manufacturers are not anxious to overhaul an old instrument just to coat the elements. Some actually decline to accept such business. There are now many small firms scattered over the country which solicit business of this nature, but the prospective client must be on his guard against poor workmanship. It is easy to apply a coating to a lens but it is a major operation to dismantle an expensive instrument and to reassemble it properly. Most of the expense in coating an old instrument is not in the coating itself but in the labor required to dismantle and reassemble. The reassembly requires special optical instruments to insure proper realignment of the elements and only a few of these small firms have such instruments. The best insurance against poor workmanship is to take the instrument to a reputable dealer who will guarantee the work.

In view of what has already been stated concerning the superiority of the high-temperature process over the cold process, one desirous of having his instrument coated should insist that the high-temperature process be used. The imposition of this restriction necessitates much greater skill on the part of the coating firm because the lenses must be removed from their mounts and *uncemented* as the heat to be applied would melt the balsam between the elements. The re-cementing must be done accurately by persons who understand what they are doing. An instrument which can be "hard" coated throughout by the high temperature process will possess the best film now known.

Like most ideals, there is an exception. All foreign instruments, and a few made in the US, are so constructed that it is unwise to remove some of the lenses from the metal mountings. After the glass lens is inserted into the mount, a machine rolls a thin piece of metal over the edge of the glass and locks it permanently in place. To remove the glass lens, it is necessary to straighten the rolled edge—an operation which often results in a broken lens or damaged mounting. It is inadvisable to attempt this operation and so the high temperature process cannot be used. The next best is a modified cold process in which the lens is subjected to a high voltage glow discharge in the vacuum jar. The film produced by this method is far superior to the unmodified cold process but it is inferior to the film produced by the high temperature process, particularly in its stability to water. The policy which should be followed with these instruments is to use the high temperature process on all lenses which can be removed from their mountings and to use the modified cold process on all others which should not be removed from the mountings.

The care of a coated instrument need be no different than that accorded any fine optical instrument. Properly applied coatings will not be removed by soap and water or organic solvents such as alcohol, naphtha, ether, carbon tetrachloride, or benzene. The outside surfaces receive the greatest abuse since they are cleaned frequently whereas the inside surfaces are never touched. It must not be expected that a film only four one-millionths of an inch thick will never wear off when cleaned frequently. The hardest film will eventually wear away. The moral is to clean the surfaces as gently and infrequently as possible. Use clean soft cloth, lens tissue, or a cotton swab.

One of the quickest ways to damage a film is to scrub it with gritty cloth—such as a handkerchief which has picked up particles of sand and grit in a pocket. Particles of sand will scratch uncoated glass but the scratches will not appear so bright as an identical scratch in a film. A scratch in a film stands out prominently against the low reflecting background because the film has been removed, thereby restoring the reflection to that of uncoated glass. A few scratches in a film do no harm as the area exposed by them represents such a small proportion of the total coated surface that they will have no effect whatsoever on the quality of the image.

Finger marks or any greasy films on a coated surface stand out prominently and manifest themselves by a myriad of color variations on the surface similar to an oil film on water. This color effect is a normal consequence of one thin film (grease) on top of another thin film (coating). The cure is to remove the greasy film with clean alcohol.

If the user will observe the few simple precautions described above, there are no reasons why properly applied films should not give many years of perfect service. ◆ ◆ ◆

NEXT MONTH: Headlining the April RIFLEMAN will be an article from an unusual shooter . . . a Chicago girl whose record should shame many a recoil-shy male. Her name: Kristen Sergel. Her record: lion, rhino, elephant, moose, and many another trophy with the .450 double or her old favorite, the .375 Magnum. Her weight: 116 pounds! And there'll be Part One of a three-part article on binoculars . . . how they work, how to tell good from bad, with comparative tables of the most popular American and foreign glasses. Also, Jim Berryman with a story of an armchair lion hunt . . . Gordon Boser on home-made loading tools . . . and the final installment of Executive Director Lister's concise, factual history of the NRA.

Ruffed Grouse Frustration

By M. AUGUSTUS WHITEHEAD

SURE, THEY'RE HARD TO HIT. BUT ABOUT THE ONLY WAY YOU CAN BECOME A PARTRIDGE MAN IS BY CONSTANTLY HUNTING THEM — ONCE YOU HAVE MASTERED THE "THROW"

Wisconsin Conservation Dept.

IT IS NOT OFTEN that shooting men become frustrated. Generally speaking, there is something about gunning which not only discourages the individual prone to frustration from taking it up but which adds the mental stamina to the ordinary middle-of-the-roader, once he is engaged actively in shooting, that makes him proof against most forms of frustration. However, there is one form of shotgun shooting that differs so greatly from the others as almost to set it apart by itself—the hunting of ruffed grouse, particularly of the New York, northern New Jersey, Pennsylvania, New England, upper Wisconsin, Minnesota, and Michigan covers.

The grouse that exist in the unsettled wildernesses of French Canada and other far northern parts of this continent, having never been gunned constantly for nearly 300 years as American grouse have, are not my subject. Birds that perch in trees along the far-distant trout and salmon rivers, that let you walk up and swipe three or four into the frying pan with one leisurely sweep of a stick, are a distinctly different sort of fowl, believe me.

It was in my fifth season of gunning grouse, on every day of the season that I could get into the woods, that I first saw one sitting. It occurred during the crisp, clear noon of an Indian summer day. I was standing silently near the edge of a park-like forest of huge maples. The ground around me was carpeted with leaves the color of freshly minted gold coins. I had just lit a cigarette and glanced over toward the field on the other side of the stonewall that separated my partner and I when a grouse materialized not over ten paces away. He stood there, the epitome of all that is alertness, courage and gameness—a whopping big cock partridge that would go a good pound and three-quarters, topknot up and ruff down, tail-feathers together with tip down, head high, and eye cocked at me. I swung the gun from the crook of my left arm. As my right hand slapped the grip, he split the silence of that forest with a getaway that sounded like the roar of a .50 caliber machine gun. I missed him twice. As he crossed the open field, my partner, who had a perfect shot at twenty-five yards, missed him twice, also. I was glad he got away.

But they do not all get away. In our walk of nearly eighteen miles that day, each of us shot a box of shells. My partner got three and I two.

Yes, they are hard to hit.

It is this oft-repeated statement that one hears, even from the best wingshots, that gives most men ruffed grouse frustration. Big diamonds like the Kohinoor are hard to break into salable small stones from the preposterous monstrosities that they are. Yet, there are a handful of diamond cleavers who, thinking they can, are permitted to try and do break them into what is desired without losing the big diamond in a shower of dust and chips. What makes the diamond cleaver is the same thing that makes the partridge man. In their separate occupations, both are stalwarts. What they have that ordinary mortals lack can be described as a capacity to find something that they love or deem a challenge to their abilities, then to work, slave, sweat, ache, gasp, strain, and even bleed until they have done it again and again and again, and know they can do it a majority of times.

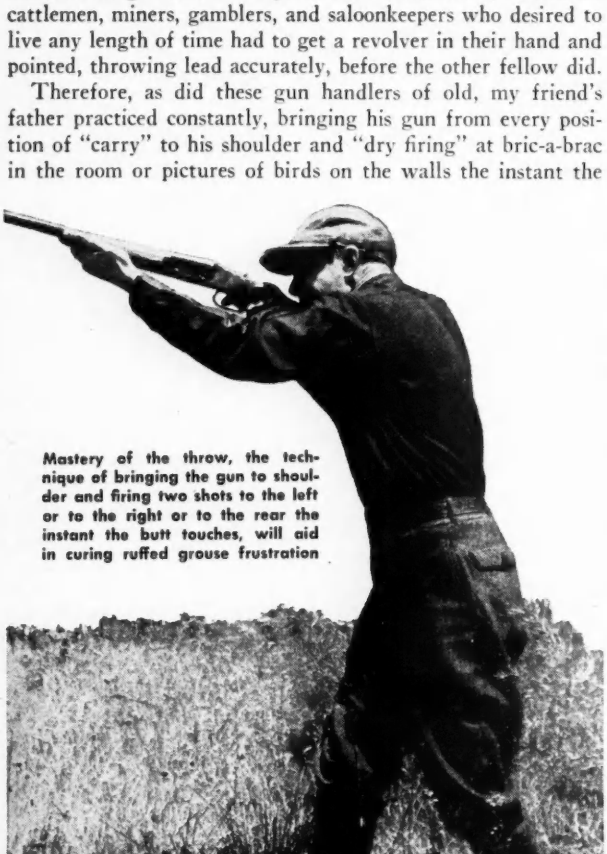
Quail shooting skill can be developed at straightaway trap-shooting; pheasant and dove shooting skill at skeet. But success at grouse shooting cannot be acquired, even by constant practice at either form of clay pulverizing, or at quail, pheasant, duck, or any other bird. If sweat is expended in training oneself properly, and in the effort to get within shooting range of grouse, any fair shot can become as much of a partridge man as my lifelong friend. He is a wiry, agile individual who, at the age of sixty-five, is mistaken for a man of forty. He seems to "flow" rather than to walk through the woods and brush. This motion results from moving his legs around obstructions instead of lifting his feet over them.

He stems from a long line of partridge-shooting ancestors who trace their beginnings on this continent back prior to the year 1700. The first thing he learned about a gun was "the throw." In the parlor of the big old farmhouse back in the mountains, a structure framed with foot-square chestnut and oak, hand-hewn and held together at the mortised joints with foot-and-a-half-long, two-inch diameter tapered oak pegs, hung a 12-gauge double hammer gun. Ordered from Meriden, Connecticut, by Grandfather back in 1871, according to the yellowed-with-age bill of sale in the old mahogany desk, it

hangs there still, worn bright and smooth by the hands of generations of the family. No, Grandmother could never make him keep it in the kitchen. Next to her and his children, it was his most prized possession and the parlor was none too good a place for it. It was a part of him and of the house.

The technique of the throw was known to oldtime shotgun handlers long before the days of the "Wild West," when all cattlemen, miners, gamblers, and saloonkeepers who desired to live any length of time had to get a revolver in their hand and pointed, throwing lead accurately, before the other fellow did.

Therefore, as did these gun handlers of old, my friend's father practiced constantly, bringing his gun from every position of "carry" to his shoulder and "dry firing" at bric-a-brac in the room or pictures of birds on the walls the instant the



Mastery of the throw, the technique of bringing the gun to shoulder and firing two shots to the left or to the right or to the rear the instant the butt touches, will aid in curing ruffed grouse frustration

butt hit. This mounting of the gun into shooting position was vigorous to the point of actual violence. About twenty throws were made each evening from the positions of carrying "at port," at the shoulder, with barrels up higher than the left ear, in the crook of the arm, with gun in one hand and butt resting on hip, and with gun in one hand hanging at thigh.

When, in 1903, my friend's father had a bumper crop and bought a new hammerless ejector double for $167.50, he let his son handle and throw the old hammer gun, teaching him the technique he knew so well. The boy practiced until the gun was a part of him and he could bring it into line and snap it twice in a split second. He learned that it was always best to fire twice, hitting the bird on the first as well as on the second shot—unless, of course, there were two birds.

Then, occasionally, they would take a few shells and go out behind the barn with their guns and tack up tin cans, pieces of cardboard, old shell boxes, and the like along a rail fence, in trees, or on stumps. There they would repeat the indoor practice, but walking slowly along, imagining they were in the woods getting shots at rising grouse and throwing down on them, firing two shots so close together that they sounded like one, instantly reloading and being ready for another.

The great advantage in the speed of reloading of the ejector gun over the nonejector was made plain during these trials. But the old hammer gun, carried always with both hammers at full cock, was a little faster in getting off the first shot. The reason for this was soon recognized as being in the psychology of uncertainty, ever present, of the human thumb to react to the business of pushing off the safety catch. This was remedied by the removal of the safety catch and all its internal gadgetry, which lightened the new gun a full ounce. Even this did not make the hammerless as light as the old hammer gun. Against the hammer guns' racy balance and well-distributed weight of seven pounds, the hammerless was a bit "middle-heavy" in its seven and one-half pounds.

Going afield with cocked hammer gun, or one with no safety, may sound like foolhardy rashness, but he handled it, always, with the respect due a ready weapon. Nor did he ever forget the safety lessons learned there with his father. There was never an accident, nor a shot when it was unexpected.

In shooting and studying all aspects of the gun, the boy became more familiar with it. His father never let him handle the new gun.

"Handling any other gun than the one you are going to carry afield takes away the feeling of utmost familiarity that you must have with a gun if you are to hit grouse," he would say. "When I die or when you can afford and really want something better than that hammer gun, you can buy one or you can use this. But if you buy one, let it be the best that you can afford and let it be really a better gun than you have. Then practice with it and never use any other until you are as good with it and it is as good with you as the old hammer gun will be."

When the leaves turned and fell and they went afield together, the value of all the training in the parlor and behind the barn was made manifest. He missed the first grouse that rose on his side of the draw that led from the pasture into the deep forest, but the second shot, which from force of habit at practice rammed the horn buttplate against his shoulder, cut the bird dead in the air so that he could walk up to the rustle it was still making on the bright yellow carpet of maple leaves and pick it up with pride and satisfaction.

And so, let the reader who is frustrated because he has never killed many grouse, ask himself a few questions point-blank:

"Have I ever learned the throw of a really good gun and stuck with that gun until it is almost as much a part of me as one of my hands or feet?

"Have I ever practiced the quick dual shot that is possible only with a double-barrel gun with two triggers?

"Have I got the stamina to go all day through the thickest cover and over the roughest terrain to get in and stay in that kind of physical condition which will permit my reflexes to throw my gun and fire it instinctively and accurately at the merest glimpse of Mr. Ruff as he roars up unexpectedly through dense cover?

"Am I willing to spend some money for a real gun and some time in learning how to handle it safely but with speed and accuracy?

"Do I love grouse shooting enough to walk twenty miles to get one good shot, knowing before I start that I am going to miss, and do this again and again until I learn how to hit?"

If you can answer these questions to your own satisfaction and follow the methods of learning which generations of partridge men have followed, you can enjoy the sport which, in the writer's belief, has no equal on this earth. ♣ ♣ ♣

Well, I'll be darned . . .

By WALTER F. ROPER

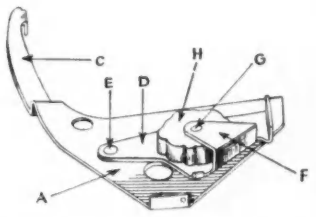
I'VE ALWAYS BEEN GLAD that I was taught by a smart father to be careful about passing snap judgments. "Take time to think a thing out, and *try it if possible*," was his constant suggestion. It has paid off at least a hundred times. More than that, if one approaches a proposition with an open mind and without a mental decision concerning the matter, one learns a lot he'd otherwise miss.

I'll admit that when my good friend and expert marksman Paul Palé, of Cincinnati, Ohio, told me he had invented and patented a trigger mechanism that made it impossible for a man to know when to flinch, because the let-off came at a different point in the trigger motion every time he fired a shot, I couldn't quite get it. That word motion to describe the trigger action had me stumped. Up to that time my idea of a fine trigger pull was one that had no motion until it let go, and I've spent many hours stoning triggers to give just that zero movement before let-off. Was it possible that all that effort was wasted, or did Paul mean something different from what the words said? That's why I asked him—I've outgrown the idea that questions are a sign of ignorance.

The answer was a most interesting letter *and the darndest gun I've ever shot.* In fact, it is a gun that has raised my opinion of my ability with a handgun about 100 percent. I simply can't shoot as well as I do with that gun.

Let's consider the regular type of trigger pull—the kind we all have wanted and spent good money to get just right, the kind we press and press until suddenly it lets go and the shot is away. Let's suppose we have a perfect sample of this "perfect" pull. Most of us use a lot of energy getting it to let-go—it is really hard work—and most of us, whether we admit it or not, frequently anticipate the let-off and do a bit of predischarge moving, winking of the aiming eye, or just plain flinching. Otherwise, how do you account for those wide shots? It's OK with me if you want to say, *"No Sir, I don't ever flinch"*—but ssh, what about those sevens.

Mr. Palé puts it nicely when he says, "A good sample of this is the shooting one invariably does with a strange pistol. The first ten or twelve shots will almost always make an unusually tight group, the kind that wins world's championships. Then the shooting becomes one's normal grade again because it takes about a dozen shots to become subconsciously educated to the trigger pull that a few minutes before was totally strange. During that period of strangeness every shot was a complete surprise—and a good one. Then the disastrous effect of a combination of caution and trigger familiarity sets up a mental hazard that only the most gifted and most disciplined shooters can keep under control sufficiently to make the scores that win matches.

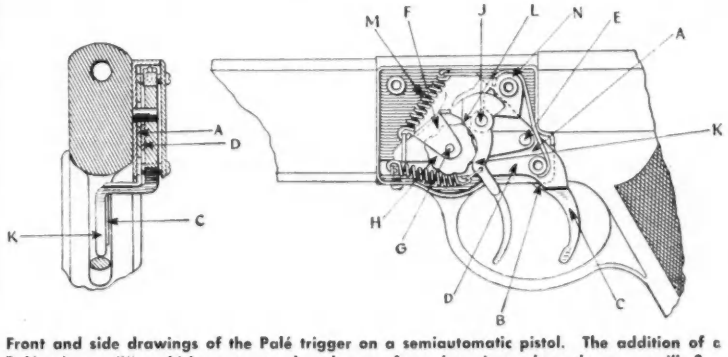


Arm of the Palé auxiliary unit which engages the regular trigger of a gun, actuating it when the auxiliary trigger is pulled. The other drawings on this page show the complete Palé unit

"What is needed is unpredictableness in the trigger pull—a trigger mechanism which releases the hammer before the shooter can flinch, so that if he does flinch it will be only as a result of the explosion and not because of anticipation of it."

I was willing to go along with him on that. I've always noticed that the first few shots with a new or strange gun gave me groups that were most pleasing, although I'd never figured out why they did and I never felt that I could afford a new gun for every match just to get the better scores. I was still thinking about that word motion in his description of the trigger action, however, and it was not until I shot the pistol on which he had installed his mechanism that I saw what he meant. As a matter of fact, I did "spoil" a perfectly good Springfield before his gun came, just to see what would happen if the trigger did move smoothly and steadily back with the let-off coming somewhere in the travel. To say I was shocked by what I found is putting it mildly. Although I didn't have any place to actually shoot the rifle, I could see by dry firing that the control of the trigger having a motion such as one gets when the end "hump" on the sear of the military action is ground off is far easier to work properly. I learned that the absence of a sudden release leaves the rifle pointing right where it did before release.

That was only a starter, however, for actually shooting the pistol. A light barrel Woodsman, which the inventor of this new trigger action sent me, was something to be remembered for a long, long time. The very first thing I noticed was no flick of the muzzle when the trigger released the hammer, and shooting seemed just like hold-



Front and side drawings of the Palé trigger on a semiautomatic pistol. The addition of a Palé trigger (K), which prevents the shooter from knowing when the gun will fire, requires an arm (C) to engage the regular trigger (B) of the gun. Fastened by means of a pin (E) to a plate (A), of which the arm (C) is an extension, is a smaller plate (D), the end of which (F) is bent over the irregularly shaped actuating cam (H). The cam rotates on shaft (G). When the auxiliary trigger is pulled, it pivots on stud (J) and the bearing point (L) forces the cam (H) and plate (D) downward. Spring (M) holds plates (D) and (A) in the same relative position to one another, with plate (A) moving around its pivot and exerting pressure upon the regular trigger (B) through arm (C). This fires the gun.

ing trying to release the hammer. I'm sure every shooter will get what I mean by that. While it is easy to just hold and aim a pistol if the trigger is not pressed, the instant pressure is applied the whole thing changes. What was easy before, becomes a tough job. The sights won't stay in alignment, the gun won't stay pointed right on the target, and one wonders whether he can possibly get the shot away.

With the Palé trigger action one doesn't feel any of that. Shooting is just like holding without trying to develop pressure on the trigger. One would think that to have a trigger start moving as soon as any pressure is applied, and have it continue to slide back smoothly with the discharge coming somewhere in the travel, would be a bit disconcerting. One trial will prove that it is not. In fact, when one thinks of it, that is the proper way to get the release instead of having a sudden let-go with a chance that a reaction on the shooter's part will pretty certainly follow and change the pointing of the gun.

Mr. Palé's mechanism does something besides just give a smoothly moving trigger, however, because the let-off does not occur at the same point in the travel of the trigger. In fact, it is never in the same place in the travel on consecutive shots. The shooter, in effect, has one of those "strange" guns we mentioned which gives such good scores because he doesn't know when the let-off is coming and so can't tell when to wink, tighten his grip, or really flinch. With this gun you just press that easy-moving trigger back and the shot gets away without any chance for a reaction by the shooter.

The theory upon which Mr. Palé worked in designing his trigger mechanism is best described in the condensed wording of the patent issued him. It is as follows:

Palé auxiliary trigger is a complete unit which can be fastened on the side of a semiautomatic pistol without making any modification to the gun

"Modern firearms are designed to provide infinitesimal movement of the trigger to cause discharge. Novices are taught that the trigger must not be pulled, but squeezed very gradually. In other words, firing is not accomplished by moving the trigger through an appreciable arc, but rather by a gradual increase in the pressure on the trigger until it suddenly trips and is free. To increase the safety factor, rules have been established which bar from competitive meets, firearms requiring less than a certain specified minimum trigger pressure to fire. Such regulations, of course, only partially eliminate the danger of accidental discharge, as any trigger mechanism operating on this principle, whether the pull required is heavy or light, is dangerous as no warning motion occurs before discharge takes place. Such a trigger pull also makes good shooting difficult.

"This is true as, first of all, a gradual, smooth increase in the pressure on the trigger is difficult to produce and to most persons comes only through long practice. Second, at the instant of release, the trigger mechanism is relieved of its load and the trigger snaps back freely to the limit of its motion. Third, and most important, after a few shots marksmen learn to know, or sense subconsciously, when the trigger is ready to release the hammer. Only a few are so constituted that they can always prevent a slight involuntary flinch in anticipation of the explosion to follow. This, of course, spoils the aim and causes a poor shot.

"The object of this invention is to provide a trigger mechanism which will overcome these mental, as well as mechanical, handicaps to good shooting by providing a long equalized trigger pull before and after release. It makes the point in the trigger motion at which the gun will fire variable and indeterminate, so that the shooter is assured of a smooth, uniform pull without any sudden change in the resistance to his pressure. He cannot possibly have any indication of when discharge will occur.

"Another object of the invention is to provide a mechanism which may be attached to stock firearms without changing the gun in any way or requiring the skill of a gunsmith."

Briefly the operation of Mr. Palé's device is this: First, by means of a supplementary trigger, pressed by the shooter, which moves a considerable distance and acts through a very short leverage on the regular trigger, a long, smooth trigger motion, without any change in the resistance to the finger pressure before, when, and after the hammer is released, is obtained.

Second, by acting through a fulcrum that varies the leverage of the supplementary trigger upon the regular trigger, the point in the travel at which the regular trigger will release the hammer varies and cannot be anticipated by the shooter. The fulcrum mentioned is in the form of a more or less circular cam which is rotated a variable and indeterminate amount by the mechanism so that the point in the travel of the supplementary trigger at which the regular trigger will release the hammer can never be known or anticipated. Under these conditions the shooter cannot possibly know when to flinch or move until after the bullet has had time to be free of the muzzle.

In addition to other provisions, Mr. Palé's mechanism is so constructed that should a safety, which prevents motion of the regular trigger, be set, movement of the supplementary trigger will not cause stresses in the mechanism which will injure it. The supplementary trigger will simply move through its cycle and return to its forward position ready for operation of the regular trigger when the safety is off.

In his letter telling me about the results that had been obtained by other shooters with the mechanism, Mr. Palé said that it is in timed and rapid fire that the most surprising results are obtained, and mentioned the experience of nine shooters who averaged in the seventies with the regular gun. With his mechanism they went right into the nineties and stayed there. Well, I believe him. You should see some of the targets I made in timed fire. Maybe they wouldn't give Harry Reeves or Al Hemming any thrill, but remember that of all the kinds of shooting I do, timed and rapid is the stuff I simply hate. I was brought up a slow-fire shooter and, so help me, I'll be one as long as I shoot at all! Maybe I'm Scotch.

"BUSTIBLE" Bullseyes

The new NRA "Bustible Bullseye" is the answer to a long est for a standard—and workable—novelty target. The rious shooter wanted it for his own lighter moments and so to help him interest new shooters in the game. The inker, tired of shooting up his poker-chip supply, wanted be able to buy the real thing over the counter.

The NRA studied the problem and now has come up with "bustible" that eliminates all the faults of its predecessors. ou can hang the new target easily in several manners and will stay in place. Only one target will break or drop hen a shot scores and the target lends itself to hundreds of teresting games.

Made of plastic, it can be used anywhere that it is safe shoot your gun. Members of the NRA staff have shot at new targets during several sessions on the Headquarters' nge—putting them through their paces to see if they could nd the gaff demanded of a bustible. Without qualification ey did. It was found that the handiest way to use the gets was to push the attached wire hanger through a piece stiff paper or light cardboard (the back of a used target is od), and then bend the wire down to hold the target in ce. In no instance did a target, not hit, drop from place break. Several other methods of hanging were tried, such from nails in a board by making use of the prepunched e near one edge or suspended from strings. All of the thods proved completely satisfactory.

The next thought was given to the use of the target. Game er game soon brought itself forward. To mention three —the "Mad Minute," "Dueling," and "Slow and Rapid Fire."

In the "Mad Minute," for rifle shooters, ten targets are hung up for each shooter. Shooting from the offhand position, the shooters are allowed to fire as many rounds as they can get off in one minute. The winner, of course, is the man who breaks the most targets. Ties are broken by reducing the time in succeeding relays.

In "Dueling," for pistol shooters, all entries are paired off by drawing lots. An umpire is assigned to each pair, and not less than two nor more than five targets are put up for each contestant. The first man to break his targets wins the duel. The full duel is decided by the best two out of three, the losers eliminated, and the winners re-paired until an eventual winner emerges.

For "Slow and Rapid Fire," three rows of five bustible targets are hung up for each contestant. Each shooter is allowed to load only five rounds for each row. For each succeeding row the firing time is reduced. The score is computed by allowing one point for each target broken, and ties are decided by placing first the shooter who breaks the most targets in the row of the shortest time limit.

These three games are mentioned specifically because they happened to prove most popular among the NRA staff. However, hundreds of interesting games are possible, and a big kick can be gotten out of all of them.

Here are targets that will give you many happy hours of shooting! They are now available to gun enthusiasts through the National Target Company, 1255 - 25th Street, N. W., Washington, D. C., at seventy-five cents a hundred. They are cheaper in larger quantities. ♦ ♦ ♦

Report from the DCM

As we go to press, the Director of Civilian Marksmanship reports that the DCM Sales Division is processing orders received on October 27, 1947. By the first of March the DCM will have processed all purchase requests received during October and then will be working on the backlog of November purchase requests. The sale of Springfield and Enfield rifles was suspended January 1, 1948, and no more orders for rifles will be accepted until the large volume of orders received during 1947 can be processed.

In an effort to expedite the urgent processing job, the DCM has inaugurated a new procedure for returning the NRA cards of members who order Ordnance material. In the future, the Ordnance depot designated to make shipment will return the member's card when requesting payment for his order. The member will then retain his card and remit to the Depot direct, sending two copies of the approved order with his remittance. Both copies must be signed and the complete name and shipping address should be *printed* under the signature. Be sure to indicate both mail and express addresses if not the same. All shipments are made by express unless otherwise requested.

In the October RIFLEMAN announcement was made that the DCM had a limited supply of binoculars, including the large type known as M-2, listed at $70.00; the smaller Model M-6, listed at $40.00, and some of the type EE Field Glasses priced at $25.00. Some of each type except the M-2 are still available. While all of the binoculars are in good condition, they are not new, and hence are offered "as is" with no Federal Tax.

Members may order now any of the binoculars referred to as well as any items listed in the current DCM price list, *except rifles.* When ordering any item be sure to use the exact description, as published in the price list. The processing of such purchase requests at this time is, of course, subject to abnormal delay until the backlog of orders is cleaned up. A copy of the latest DCM price list containing a members' purchase request form will be mailed to anyone requesting it. Just address a postal to the Director of Civilian Marksmanship, Department of the Army, Washington 25, D. C.

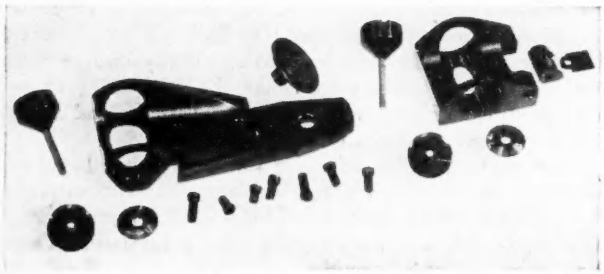
The DCM requests that club officers, when corresponding with that office, add to the address —"Attn. Club Division." ♦ ♦ ♦

A DOPE BAG "REVIEW"

STITH'S NEW MASTER MOUNT

WITH ALL THE different types of scope mounts on the market, it hardly seems there should be room for another. However, the Stiths have found a definite need for one more design, which has led them to develop and produce the Master Mount, a mount with several novel features.

The Stith Master Mount should appeal to the one-gun man who uses a short 6X or 8X scope for varmint shooting and likes to change to a scope of lower power for other hunting. He can make this switch with the Master Mount so long as one of the scopes he uses has internal adjustments.



The unassembled parts of front and rear units of Stith's new Master Mount

He will be able to replace either scope with the other without a change in zero or any need for resighting. Besides, there is a small adjustable folding aperture rear sight located in the rear mount base which is readily available when the use of either scope is impossible. These mounts are also ideal for the man who has a good scope which he might want to use on any one of several guns. He can fit each gun with a set of Master Mounts and zero his scope by the adjustment on the mount. Then the scope can be changed from gun to gun as desired and it will zero in for each.

The photo of the disassembled parts should give a good idea of the construction of the Master Mount. Both front and rear mount bases are drilled and tapped for 5/8-inch diameter cone-shaped screws, on which the scope rests, that oppose one another. These screws are coupled together by small hexagonal shafts so that, when turning the cone on one side, the opposing screw moves.

Lateral adjustment is in the rear mount. As both of the rear screws have righthand threads, they move together in the same direction, thus moving the scope right or left on a horizontal plane.

Elevation is made in the front mount. The left front screw has a righthand thread and the right front one a lefthand thread. Obviously, when either is turned, the other will move in the opposite direction since they are linked together. The front end of the scope is raised or lowered in a straight vertical plane, with no effect whatsoever on the horizontal control in the rear base.

The scope is held to the "V" bases by a thin, wide spring projecting forward from the bottom of the scope band, as can be seen in the photo. The front end of the spring, which is pierced, slides under the rib that projects back of the receiver ring. A large-headed screw through the extension is turned into the hole in the spring, holding the scope securely on the cones of the bases.

To make zero changes, the locking caps must be removed from the right side of each mount. These covers are anchored by Allen screws threaded into the ends of the cone-shaped screw handles. After removing these, coin slots are exposed for making the adjustments. For sighting in, a scope without internal adjustments, providing one of that type is used, should first be zeroed by using the mount adjustments. Then the locking caps should be set tight. Next, the zero indicator plate on the left-side cones is loosened and the arrows turned to the zero mark—one of twelve graduations stamped around the indicator plate. This shows the exact setting for the one scope. The scope can then be removed and the other mounted and zeroed by internal adjustment. In fact, any number of scopes of one type could be used on the same rifle and all removed and replaced without having to sight them in again.

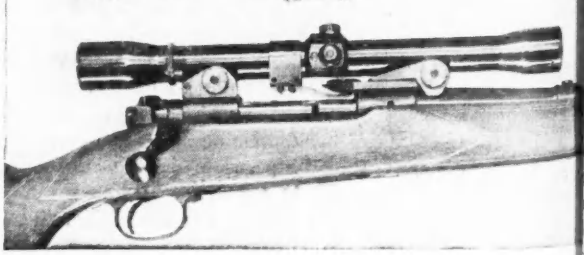
I saw M. L. Stith remove and replace a 6X Weaver scope on his favorite .220 Swift dozens of times, making hits on some remarkably long shots between demonstrations. Some of the hits were at more than 300 yards on rather small targets. His rifle was, of course, equipped with a Master Mount.

I used and saw used at least a half-dozen scopes on three different rifles. In all the removal and change tests not once could I detect any variation in the zero of a scope. Because of the relatively small contact between the scope tube and base cones, there is a chance that a scope tube could be dented by a heavy blow directly over the "V" cones, causing a change in zero. However, this is rather remote.

A side bracket for the rear mount will be used on some guns because of the short mounting area on the receivers. A few of the rifles which will require these brackets are the Remington Model 721, some Enfields (which have that oval hole in the top of the receiver bridge), the Winchester Model 54, and the prewar Model 70 rifles. The clip-loading slots on these models prevent top mounting.

Any scope could be used in these mounts, but there would be one objection to a long target scope—it would overhang forward of the front base too much. There are a number of excellent short varmint scopes on the market now which, with the Master Mount, should make an ideal rigid combination for a varmint outfit. The mount, with any hunting scope, should also make a very desirable combination for those who insist on having an aperture sight ready for almost instant use. Only a few seconds are required to remove a scope and tip the aperture into sighting position.—AL BARR.

If two scopes are zeroed in, they may be interchanged on the Master Mount



The Old Coach

LEARNING THE PRONE POSITION

A GOOD RIFLESHOT is obviously not born that way. The one apparent exception to this rule is the case of the dainty Annie Oakley of Buffalo Bill's day. It appears that this sweet little Ohio girl came as near to being a born rifleshot as any human who ever lived. But so long as the rest of us have fair eyesight and the physical ability to meet the everyday demands of life, we can develop into good or better riflemen by following accepted training methods. We must start at the bottom, however, to learn the fundamental points that, once mastered, can lead the way to a Camp Perry or a regional championship.

Because prone is the steadiest shooting position we know, without a rest, it is the most important to the beginner. Once the prone position is understood and the ability to assume it, relaxed and comfortably, is acquired, you are ready to master trigger squeeze, aiming, holding, and the other fine points of marksmanship. You should have the use of a well-lighted gallery and suitable floor pads, or at least elbow pads, to offset the hardness of the floor. You should also have a small-bore rifle—not necessarily the highest-priced model—that is equipped with a straight stock designed for prone shooting, a regulation shooting sling, and adjustable target sights. Your shirt should be loose about the shoulders and the neck of it open. Since you will discover neck and shoulder muscles you didn't know you had, don't overdo the first few practice periods. Go slowly.

In taking the prone position, lie on your stomach at about a 30- or 35-degree angle to the firing line. (We will assume you are right handed for the rest of this instruction. Southpaws keep this in mind). Let the floor hold you up—it's made to do that very thing. Take the position a time or two without your rifle. For example, lie down and bring your left arm around, extending it toward the target, and your elbow will rest on the floor. Your right arm will naturally take a bracing position on the elbow to keep your shoulders level. Always keep in mind that your left elbow is the fixed pivot of the prone position—it is the established, immovable corner of the triangle formed by the two elbows and your stomach.

The left elbow must be located directly under the rifle so that a line drawn through your left forearm will be as nearly perpendicular to the floor as your conformation will permit. When holding the rifle in this position, the left forearm of the average fellow will form about a 45-degree angle with the rifle barrel. However, this angle will vary, depending upon the length of your arms and whether your position is high or low. Most small-bore target rifles have an adjustment plate in the forearm to permit changes in the location of the forward sling swivel, yet there are folks whose arms are too short even with the swivel as far back as possible. If this is the case with you, the sling can be taped to the forearm to give the solid support necessary for a steady position.

Incidentally, if you do not know the correct way to get into a sling or if your position with one is uncomfortable, ask an experienced shooter to show you the correct use of it. The sling is very important. It is astonishing how many wrong ways people can put one on a rifle and then try to use it.

Lie down and place the rifle butt in your shoulder—understand, not *on* your arm but *in* the shoulder, that hollow place between your collar bone and the shoulder joint. The forearm must lie flat in your hand, the fingers against the wood or extended comfortably. Remember that the rifle is supported, not by a death grip of the hand, but by the bones of your arm and the flat of your hand. Leave the sling moderately loose but with enough tension so that you can feel a pull on the strap. When you become toughened to the position and familiar with the use of the sling, you will want it fairly tight. To loosen the sling, move the hooks toward end of strap; to tighten, move them up toward the front swivel.

You are now in place, with the left elbow under the rifle and the right elbow out to the right bracing it, with your first finger at the trigger. Place your thumb over the stock grip if your beezer will permit; if not place the thumb along the top of the grip. Do not try to lie too low or too high—take an in-between position. Bump your belt buckle on the floor two or three times to be sure your stomach is resting on it. Spread your legs, feet flat and toes out. Wiggle around until you are as comfortable as possible. With the gun pointing at the target, close your eyes and let the rifle swing where it will. Open your eyes. Where is it pointing? To the left? OK. Then shift your fanny to the left—legs too, of course—enough to align the rifle on the target. Again shut your eyes and relax. Open and where does the muzzle point now? Too high? To correct this, slide your fanny forward and the rifle muzzle will tip down. Is this clear? To raise the muzzle of the rifle, slide the fanny back; to lower the muzzle, slide the fanny forward. To move the muzzle to right, shift the body to left; to move left, shift the body to the right. Be sure and get this.

Your position must be comfortable and relaxed, and your rifle must point at the bullseye without strain. You must learn to take the same position every time and train yourself to load the rifle wtihout removing the butt from the shoulder, if the design of your rifle will permit. Except for rapid fire, your shooting will be single shot, picking each cartridge from the loading block. The loading block should be located about under your right hand when firing. In firing, hold your face firmly against the rifle stock. This is very important in .30 caliber shooting since the rifle, your face, and shoulder all recoil as a unit when the rifle bucks. To relieve the noticeable pulsations from the arteries of the left arm which jiggle the rifle by way of the sling, use either a sleeve pad or a wide, heavy leather guard on your sling. In firing, be sure to continue the trigger squeeze after striker falls, holding your sight steady on the bullseye in order to call your shot.

Study the illustrations in the booklets that have been suggested in previous columns of The Old Coach, and always carefully study illustrations of firing positions that often appear in THE AMERICAN RIFLEMAN. These illustrations are correct. We can't say as much for illustrations often seen in books and articles by persons who apparently can write, but who know little or nothing of rifle shooting. Good luck and tight groups! ● ● ●

THE SPOTTING SCOPE -- March 1948

NRA's busiest Annual Meeting in years, February 5-7, at Washington's Hotel Statler produced something of a "new look" in shooting activities . . . and also in the personnel of the Board of Directors. . . . New and younger faces dominated the scene in a trend indicated by election of the youngest president in the 77-year Association history, 42-year-old Emmett O. (Doc) Swanson, of Minneapolis, Minn. . . . Dentist Swanson, long-time member of the Board and Executive Committee and three-time member of U. S. International Rifle Teams abroad, heads a slate composed of: Major General Merritt A. Edson, Vice-President; Major General Milton A. Reckord, Executive Vice-President and Treasurer; C. B. Lister, Executive Director and Secretary. . . . The popular new president then presided over the largest annual NRA dinner ever held, with over 350 guests.

Wide open forums on the .30 caliber, smallbore, and pistol games, and junior and collegiate activities, preceding the Friday Board meeting, saw many enthusiastic NRA members on hand to air their likes and dislikes with Board members and the headquarters staff. . . . Final action resulting from panel recommendations included:

By action of the Executive Committee the number of shooting classifications reverts back to four—Master, Expert, Sharpshooter, Marksman—with the combination of the old Marksman First Class group and Marksman. . . . Individual tournament sponsors, however, may continue five classes for the purposes of awards if desired.

Changes in the Regional Tournament picture include elimination of definite geographic boundaries, allowing competitors to attend the Regional of their choice—but only one. . . . Regional host clubs may retain all entry fees and the NRA will furnish all awards (with a minimum of $750) without expense to the club. . . . Minimum number of Regionals for 1948 will be six smallbore and six pistol, with as many additional as funds may be made available for. . . . Thus, the Regionals become NRA tournaments in fact,—"Little Camp Perrys"—not to be held in connection with any other established tournament.

Under study by a special committee are plans for a big NRA Convention to include the annual Members' Meeting. . . . The committee, soon to make its report, will attempt to line up arrangements for the first one to be held in Washington, October 14-16, this year. . . . In 1949 it will move to a West Coast city; in 1950 to the Middle West. . . . Principal objects will be to improve club and tournament management, improve club facilities, further develop the junior program, and plan a nation-wide educational campaign against anti-firearms laws. . . . Members and clubs will be invited to participate or send delegates

In addition, the Executive Committee: (1) Approved in principle the idea of an official 25 foot gallery target for junior instruction and qualification. This project is now before the Smallbore Committee. . . . (2) Made official the 50 meter experimental target for use during 1948 with the provision that supplies of the present type may be used up this year. . . . (3) Stopped further experimentation on the proposed new 100-yard target which has not proved satisfactory. . . . (4) Facilitated closer cooperation with foreign shooters by an amendment to the by-laws providing a non-resident membership for clubs and individuals in friendly foreign nations.

Meeting Sidelights: Treasurer's Report shows that 1947 was a bigger year financially than was 1946; new records for membership, income—and expenses. . . . Secretary's Report shows more clubs than ever (5,321); more junior qualifications (107,795) more registered shooters (12,546); greater attendance at registered shoots (24,888). . . . The NRA luncheon for Washington newsmen, held in connection with the meetings, was such a success that when Naval Academy publicist Jerry Flynn arrived in town with new Navy football coach George Sauer in tow, he found the local sports departments all but empty. . . . They had to invade the pre-dinner card game in NRA Public Relations Division hotel headquarters to introduce Sauer to sportswriters.

Ray Stann

Tournaments . . .

The Annual Winter Gallery Rifle Tournament sponsored by the Metropolitan Rifle League was fired in New York City on December 13 and 14. L. F. Lenney won the four position metallic sights match with a score of 193. J. W. Busse's 192 outranked O. I. Taylor's 192 for second by virtue of a higher offhand score. C. D. Vanderbush, O. Klob and J. F. Lenney placed first, second and third with 196, 195 and 194 respectively in the four position any sights match. A. C. Jackson scored 194 in the two position any sights match to top J. F. Lenney's 193 and G. W. Koegel's 192. The Grand Aggregate match was won by J. F. Lenney with A. C. Jackson and O. Kolb following in that order. The Junior Match was won by Thomas Green, a well-known junior around the New York area, with a score of 190. F. W. Cole, Columbia University, won the Collegiate Match with a four position score of 192 followed by G. H. Ebdon, Jr., Rutgers, 191.

☆ ☆ ☆

Seventy-three competitors participated in the Florida West Coast Pistol League Match of December 14. M. O. Wilson won the Aggregate Match with a score of 842. Frank Wright and E. H. Laycock placed second and third, with 823 and 822. The class winners were: John Lucas, Expert (842); James Dickens, Sharpshooter (808); Clifford Pratt, Marksman First Class (776); and Jay Hall, Marksman (761). The Tampa Shooting Club's team made up of M. O. Wilson, J. W. Rose, J. A. Suarez and W. E. Todd placed first in the National Match Course team event with a score of 1107. The Tampa Police Team placed second, with 1090, followed by the Clearwater Police Team, 1059. The sponsors of this match are planning to present the competitor with the *lowest* aggregate score a trophy in future matches.

☆ ☆ ☆

The Portland Rifle Club Members' Registered Match was fired on January 4. The winner, in the Master Class, was Ray Green who fired 195 in the sitting position and 184 in the standing position for a total match score of 379 X 400. Willis B. Miller placed second among the Masters with 372. The high score of the match was turned in by Rex Pelker, an Expert, who fired 380 X 400. Ray Green added a perfect 200 in the Prone position to win the combined match with a total of 597 X 600. Rex Pelker tied, but was outranked. The Sharpshooter Class trophy was won by Russell Cornelius; the Marksman Class trophy, by Cloyce Joers; and the Tyro Class trophy, by William Sestak. Many shooters were classified by this club match.

☆ ☆ ☆

As most western pistol shooters know, the San Francisco Police Department conducts a pistol tournament each month. Each year the aggregate scores, consisting of the high eight scores fired by each individual competitor, are ranked and the high scoring competitor is presented the San Francisco Call-Bulletin Championship Trophy. The 1947 winner of this trophy was Quentin Brooks with an aggregate score of 6954. Bob Chow placed second with a score of 6895, followed by Jack Ahern, 6895. The possible score for this event is 8800. In addition to the Call-Bulletin Aggregate, another feature aggregate match is based on the high four scores fired in each six-month period. The winner of the aggregate fired in matches from July to December was Quentin Brooks who had a total score of 4277. Bob Chow again placed second with 4247. Griff Thompson was third with 4239. Prizes are also awarded to the high scoring competitors in each class. A similar arrangement is used to determine the *Team Champions* for the year. The teams are rated according to the number of wins. The Class "A" 1947 Team Championship was won by the San Francisco Police Team Number 1. San Francisco Police Team Number 3 won the Class "B."

The 1948 series of matches were started on January 18. Quentin Brooks started off the new year right by chalking up a new Civilian Record over the Center Fire Camp Perry Course. The 298 he fired topped Jeff Trader, who fired 297 over the same course at Roslyn, New York, on July 12, 1941.

☆ ☆ ☆

The results of the second match of the National Junior Postal Team Championship have been compiled. The team scores in four monthly matches are added together to determine the team champions. The aggregate scores of the first and second match show the following order of teams:

OPEN TEAM MATCH

Division A: (Course of fire: 10 shots prone and 10 shots standing)

1st Place—Glendale Post Junior Rifle Club #1, Seattle, Washington	1900
2nd Place—Christian Brothers Academy, Albany, New York	1887
3rd Place—Glendale Post Junior Rifle Club, Seattle, Washington	1875

Division B: Non-Military School Teams (10 shots prone)

1st Place—Munhall High School #1, Munhall, Pennsylvania	998
2nd Place—Upper Darby High School, Upper Darby, Pennsylvania	995
3rd Place—Munhall High School #2, Munhall, Pennsylvania	993

MILITARY SCHOOL TEAMS

1st Place—Christian Brothers' Academy, Albany, New York	994
2nd Place—Xavier High School, New York, New York	994
3rd Place—Central High School ROTC, Pueblo, Colorado	983

Division C: Non-scholastic Teams (10 shots prone)

1st Place—B-24 Marine Detachment Junior Rifle Club, Long Island, New York	995
2nd Place—Glendale Post Junior Rifle Club, Seattle, Washington	994
3rd Place—Y. M. C. A. Junior Rifle Club, Seattle, Washington	986

Division D: Cub Teams (under 15 years old) (10 shots prone)

1st Place—B-24 Marine Detachment, Long Island, New York	965
2nd Place—Cretin High School, St. Paul, Minnesota	950
3rd Place—Phillips Exeter Academy, Exeter, New Hampshire	949

Division E: Girls' Teams (10 shots prone)

1st Place—Glendale Post Junior Rifle Club, Seattle, Washington	992
2nd Place—Munhall High School, Munhall, Pennsylvania	987
3rd Place—Upper Darby High School, Upper Darby, Pennsylvania	982

☆ ☆ ☆

In the November Tournament Reviews a notice to the effect that the Cumberland Rifle Club team defeated the Green Belt Rifle Club team to win the Maryland State Team Championship was carried. Actually, the Cumberland team won the NRA Summer League Championship for the state of Maryland while the Maryland State Rifle Team Championship Match was won by the Maryland Rifle Club on September 28.

☆ ☆ ☆

The results of the International Pistol Team Match were published in the 1947 Camp Perry Pistol Bulletin. For the interest of all RIFLEMAN readers the complete records are listed below:

COURSE OF FIRE: 20 Shots Slow Fire at 20 Yards with .22 caliber pistol or revolver

WINNING TEAM—UNITED STATES OF AMERICA	1828
H. Reeves	193
W. Walsh	189
P. Roettinger	186
H. Benner	185
M. Golden	184
W. Fletcher	172
C. Logie	178
E. Laycock	167
C. Densford	190
E. Lea	184
SECOND TEAM—MEXICO	1734
THIRD TEAM—ENGLAND	1694
FOURTH TEAM—CANADA	1692

NATIONAL RIFLE ASSOCIATION:

Headquarters Staff

MAJ. GEN. M. A. RECKORD, *Executive Vice-President and Treasurer*
C. B. LISTER..... *Exec. Director and Secretary*
L. Q. BRADLEY. *Asst. Treasurer and Memberships*
F. L. WYMAN. . *Asst. Secretary and Club Activities*
F. C. DANIEL T. W. CHILD
GEORGE KUCH J. H. FAUNTLEROY
C. R. ROGERS
MAJ. GEN. J. S. HATCHER, *Asst. Secretary and Technical*
EDWARDS BROWN, JR. A. H. BARR
J. S. ROSE
R. J. STANN..... *Public Relations*
P. B. CARDINAL R. L. REISH
J. R. LENT
JOHN SCOFIELD..... *American Rifleman*
J. A. HARPER
E. M. CHASE..... *Cashier*

Field Representatives

Southwestern.....Ray Whitaker
310 Tuloma Bldg.
Tulsa, Oklahoma
Midwestern .....Dow Smith
Orpheum Theatre Bldg.
Elkhart, Indiana
Washington Metropolitan C. L. Floyd
1600 Rhode Island Ave., N. W.
Washington 6, D. C.
Far Southwestern.....Lee Echols
Medico-Dental Bldg., Room 101
3rd & A Streets
San Diego, Calif.
Northeastern.....E. F. Bridgman
Room 408
175 State Street
Springfield, Mass.

Executive Committee

Dr. E. O. Swanson.....Minneapolis, Minn.
(President, NRA)
Maj. Gen. M. A. Edson, USMC Retd....Vermont
(Vice-President)
Maj. Gen. M. A. Reckord.....Baltimore, Md.
(Executive Vice President and Treasurer)
Mr. C. B. Lister.....Washington, D. C.
(Executive Director and Secretary)
Mr. J. W. Woolrey.....Canon City, Colorado
Mr. Raymond C. Bracken.....Columbus, Ohio
Mr. Fred C. Mills.....New York, N. Y.
Mr. E. N. Littleton.....Bowling Green, Ohio
Mr. Seth Gordon.....Harrisburg, Pa.
Col. T. F. Wessels.....DCM
Rear Adm. M. C. Mumma, Retd.....Va.
Lt. General Julian Smith, Retd.....USMC
Mr. K. J. Voorhees.....San Diego, Calif.
Mr. Harry C. Linn.....Des Moines, Iowa
Mr. Frank T. Parsons.....Washington, D. C.

Executive Council

Brig. Gen. F. M. Waterbury....New York, N. Y.
Brig. Gen. Benedict Crowell...Washington, D. C.
Mr. Karl T. Frederick.....New York, N. Y.
Mr. Gustavus D. Pope.....Detroit, Mich.
Maj. Gen. L. W. T. Waller.....USMCR
Colonel N. C. Nash.....Boston, Mass.
Judge Hilliard Comstock.....Santa Rosa, Calif.
Colonel F. C. Endicott.....Washington, D. C.
Comdr. Thurman Randle.....Dallas, Texas
Colonel Francis W. Parker.....Chicago, Ill.

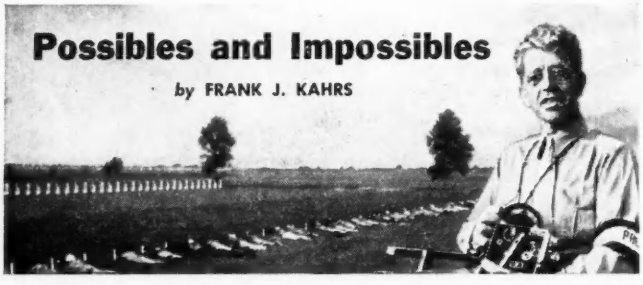
A PAPER FOR PEOPLE WHO SHOOT

Rifle

VOL. 11, NO. 3 BRIDGEPORT, MARCH,

Possibles and Impossibles

by FRANK J. KAHRS



I like to get letters from friends of mine who become interested in Junior Rifle Shooting and act as instructors. One such friend, who writes me and signs his name with a simple word "Instructor" underneath, rates my deepest respect; especially when he says:

"I had the satisfaction today of seeing one of my junior club boys shoot a possible with iron sights at 50' indoor prone position, and then he fired another 10 shots and dropped one for a total of 199x200. I feel very happy about it."

Outside of the fact that he used the 513T and Remington 22's with Kleanbore priming, the main thing to me was his statement, "I feel pretty happy about it." Here's a man who gives his time to help the youngsters learn how to shoot and when they come through, he feels very happy about it. That's his reward and that's the kind of man I like to know and call a friend, so all I can say is thanks, and keep up the good work.

* * *

One of my readers up in British Columbia recently wrote me as follows:

"I have noticed in your ads in the "American Rifleman" that you refer to what was the greatest record ever put up. To my mind the greatest shoot was the record of 297 through the ranges (25, 50 and 100 yards) at the Southfields Rifle Club. What! . . . you never heard of it? When you take into consideration the rifle used at that time with its little skimpy fore-end, crude sights and the ammunition of that date (about 1904), it was a marvelous record. At that time a possible at 25 yards, 10 shots was good enough to win any match and a 98 at 50 yards was likewise good, and also a 98 at 100 yards, or even smaller scores. The score was 100 at 25 yards, 99 at 50 yards and 98 at 100 yards, and the ammunition was U.M.C. Black. Next to that, I consider the record of 125 bulls in the Swiss Match at Camp Perry tops, as I believe the conditions were not very favorable.

Why don't you go back over some of those very old small bore matches and tell us a little about them in your advertisement. I feel sure that they would be very interesting to some of the present day riflemen. Don't forget that there were no padded coats, elbow pads, fancy slings, special sights with wind gauges, and I was once accused of cheating at a small shoot in the north of Ireland because I used a telescope to spot my shots and it was the only one on the range."

* * *

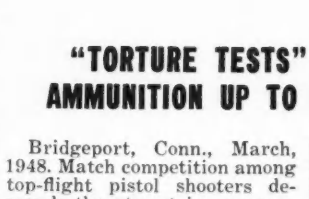
"It's an ill wind that blows nobody any good," but there are exceptions, of course, to this rule and that is what I propose to tell you about. Seems as how the boys down at New Orleans had a covered firing point. Well, as covered firing points went, it wasn't much to talk about and the boys thought about getting a contractor to take it down and build a new one, but with rifle clubs there's always the question of expense, so nothing was done about it until the recent hurricane solved the problem. And when the boys came down one day to see what damage had been done, lo and behold, there was no covered firing point!

They found it three blocks away, so they got busy right away and I am informed on reliable authority that within a week a new shed was contracted for and is now in place and we expect to have a picture of it pretty soon. Well, that's my story about the thing anyway, impossible as it sounds.

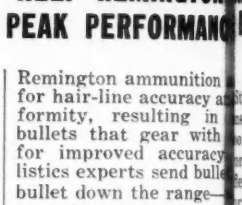
INCREASED TIV FOR FL

"TORTURE TESTS" KEEP REMINGTON AMMUNITION UP TO PEAK PERFORMANC

Bridgeport, Conn., March, 1948. Match competition among top-flight pistol shooters demands the utmost in accuracy of the ammunition. Remington Police Targetmaster ammunition can always be depended upon for quality performance. At Remington, ballistics experts see to it that there's no let-up in strict production procedure. "Torture Tests" are constantly being conducted to make sure Remington match ammo measures up.



Factor specifications for every manufacturing detail of Remington ammunition for hair-line accuracy and uniformity, resulting in bullets that gear with for improved accuracy listics experts send bull bullet down the range— —studying—improving to give shooters the fines sible" ammunition for shooting.



Protection Line: Rangemaster, T Palma, Kleanbore are Reg. U. S. by Remington Arms Company,

THERE'S ONE IN EVERY CLUB . . . The Inv

LOOK! JOE'S GOT HIS HAND STUCK AGAIN IN TH SET OF 'NEVER-SLIP EVER-G STOCKS HE INVENTED!
SOME DAY HE GO TOO FAR A HAVE TO SPEND REST OF HIS LIF ONE OF THOSE TH

...ton News

WEATHER:
SHOOTING BAROMETER INDICATES GREAT SEASON AHEAD

...MARCH, 1948 — First Class Reading Matter for Rifle and Pistol Shooters

...TIVITY SEEN AHEAD
...RIFLE AND PISTOL SHOOTERS

...tion Galore Promised In Sunny Florida's Annual Mid-Winter Tournaments

...St. Petersburg, Florida: Here's wel...e news for those who like their ...oting and sun-tanning to go together. ...m March 3rd to 7th the Sunshine ...e and Pistol Club of St. Petersburg, ...rida, will be host to the National ...-Winter Rifle Tournament. If you're ...g, chances are you'll notice a good ...centage of "Rangemaster" Model ... These fine match rifles are known ... and wide for their superb accuracy ... the way they back up the skill of the ...vidual shooter.

...Tampa, Florida: Again Tampa will be ... to the National Mid-Winter Pistol ...tches. Dates are from March 9th to ..., inclusive. The management plans ...serve, in one exciting series, all the ...oting you can take. Staged on the ...ntiful 80-target electrically operated ...ge . . . one of the most complete and ...dern in the United States . . . this ...uld be a great affair. Competition ...l be at its keenest, and for relaxation, ...ooters will enjoy a great round of fish ...es, barbecues, plus plenty of other ...ertainment.

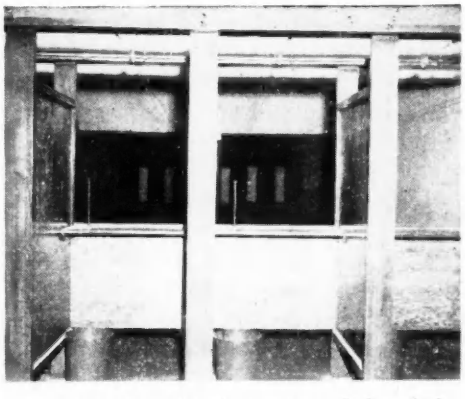
...nternational Matches Included In California Town's "Fiesta" Plans

...Calexico, California. Promoting inter...tional good will as well as good shoot..., the first annual International Pistol ...rnament has been scheduled at the ...lexico Gun Club's new modern range ... March 6th, 7th and 8th.

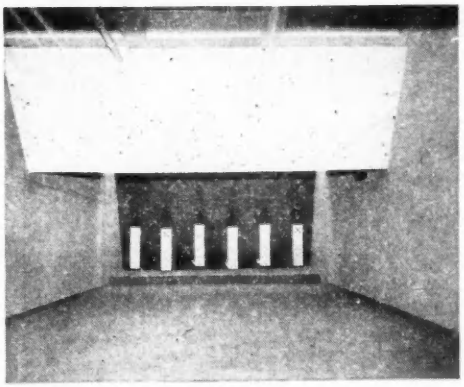
...Since the town's yearly "Spanish Trails ...esta" is running at the same time, this ...ks like a "natural" for those fortunate ...esterners who can attend the celebra...n and the smallbore matches.

...If you go, be sure to see how many of ...e top shooters prefer Remington's "Po...e Targetmaster." This popular match ...mo is an ever-growing favorite among ...ndgun experts.

1948 SEASON PROMISES TO TOP GREAT 1947 RECORD MANY REASONS SEEN FOR THIS STEP-UP IN INTEREST



A good example of a range designed for safety. Note separate firing points with scope stands and trash receptacles. Carrier cables at top lead to targets in background. Careful attention has been given to lighting and ventilation.



Looking down range. Smooth walls provide added safety. Steel backstop is set at an angle to deflect bullets into sandbox floor. All exposed pipes, conduits, beams and lights are protected by steel plates set at such angles that there is no possibility of any bullet being deflected toward the firing point.

While 1947 might have been the peak of pistol and rifle interest, all signs point to a bigger and better year ahead in 1948. Already shooting clubs have announced substantial gains in membership—many actively interested in handgun competition.

There's been a big jump in publicity—both national and local—and clubs that are on their toes see to it that their local newspapers get the stories (and pictures) of their matches, meetings and other activities. Good publicity acts like a shot-in-the-arm for increasing interest.

Then, too, there are thousands of "plinkers" in the country that just need that extra incentive to become club members. Countless plinkers have become excellent shoulder-to-shoulder competitors this past season, and their number should be topped this year.

A well-built, well-lighted range is another incentive to would-be shooters. Safety is the keynote of range construction, and it not only appeals to newcomers, but adds to an old-timer's confidence as well. An ideal range costs little more to do right the first time, and the extra cost will be more than repaid in shooting comfort, higher scores and range popularity.

Most men are naturally interested in sports and quickly change from fans to competitors when approached the right way. An active club is one that has an active program—a variety of interesting events, instructions, exhibitions. There is no better way to interest a potential club member than to let him know what fun it is to be "on the inside" at a busy club.

Whether new shooters are Camp Perry material or limit their shooting to friendly competition on the home range, they will get complete satisfaction from Palma Kleanbore and Police Targetmaster ammunition, and from the Model 37 Rangemaster and Model 513T Matchmaster rifles.

JUNIOR RIFLE CHAMPIONSHIPS

The 1948 junior rifle team and individual championships will be fired on March 6 in various sectional tournaments. Firing shoulder-to-shoulder an estimated five hundred teams will compete for area honors. Scores will be forwarded to NRA Headquarters for national ranking.

Over fifty NRA trophies and more than eight hundred medals, plus additional awards by local sponsors, will make this the biggest and most important competition ever conducted for junior NRA members.

Sectional tournaments will be conducted at the following locations: Lowell, Mass.; Albany, N. Y.; New Haven, Conn.; New York City; New Brunswick, N. J.; Philadelphia; Oakmont, Penna.; College Park, Md.; Bristol, Va.; St. Petersburg, Fla.; Willoughby, Ohio; Cincinnati; Ann Arbor, Mich.; Culver, Ind.; Milwaukee, Wisc.; Evanston, Ill.; St. Louis; Boonville, Mo.; Kansas City, Mo.; Jackson, Miss.; New Orleans; Minneapolis; Rapid City, S. Dak.; Claremore, Okla.; El Paso, Texas; Denver; Bozeman, Mont.; Nampa, Idaho; Salt Lake City; Phoenix, Ariz.; Tucson, Ariz.; Los Angeles; Hayward, Calif.; Hillsboro, Ore.; Seattle; Spokane; Honolulu (firing in Hawaii on Feb. 28); and Snyder, New York.

GALLERY LEAGUES

The final count for the 1947-48 NRA Gallery League entries is: Rifle Leagues, 96; teams, 745; Pistol Leagues, 24; teams, 128. New York State has a total of eight rifle leagues, California, seven, while Ohio and Pennsylvania have six. Three pistol leagues give Massachusetts the largest representation in the pistol field. As for women league shooters, the Long Island Rifle and Pistol Association boasts nineteen.

Club secretaries will be interested in knowing that scores fired in league matches may be used to determine the Club Champion eligible to receive the NRA Club Champion Medals. One of the gallery leagues is using NRA Qualification Brassards and Medals as awards for the highest individual shooter in each classification.

League secretaries are requested to promptly and accurately fill out the Gallery League State and National Championship Information Sheets they will receive from the NRA shortly. State finals will be set up on the basis of information furnished in these reports.

The 1946-47 Gallery League Champions are both in the '47-'48 league program. They are the Minneapolis Rifle Club and the Federal Employees Pistol Club of Denver.

QUALIFICATION SHOOTING

The complete line of NRA Qualification Awards for rifle and pistol is again available to all members and to members of all NRA clubs. Courses of fire and qualifying scores have been established for both pistol and smallbore rifle. Separate Qualifications are offered for indoor and for outdoor shooting.

NRA Qualification, in order of difficulty, progresses through four stages, Marksman, Marksman First Class, Sharpshooter and Expert. It is not required, however, that they be won in order.

To make it possible for the greatest number to qualify each year, the regulations have been made up so that qualifying scores can be fired at home or on the members club range. Targets bearing qualifying scores may be saved and accumulated until the desired course has been completed. No targets need be sent to the NRA, only qualifying scores properly attested.

Annual awards that may be purchased in evidence of earned qualification are of four types; (1) enameled medal with NRA top bar, $1.00; (2) embroidered felt brassard, 50¢; (3) enameled lapel button, 75¢; (4) colorful certificate properly dated and signed, suitable for framing, 50¢.

Years ago NRA clubs requested a certificate for club possession to reflect this club interest in qualifying its members. This award, too, is again available and without charge to any NRA club having 50% or more of its active members qualified in any calendar year. The certificate is large size for club room use, lithographed in color on parchment paper with the club name inscribed.

Many NRA clubs established regular dates throughout the year for members qualification. Interesting programs are prepared around the courses of fire used and awards and certificates are presented with fitting ceremony.

Plans are available to both individual members and clubs to help get the most out of Qualification Shooting; a card to the Club Activtities Division, NRA, will bring details.

1948 CLASSIFICATION BOOKS

Before the development of the present NRA Classification System in January 1947, each shooter was classified on a yearly basis. Each shooter's classification was published in a classification book, and this book was used as a reference for classifying a competitor during an entire shooting season. Recently, the NRA has received numerous inquiries as to when new classification books will be published.

Under the present NRA Rules the classification averages of a competitive shooter is constantly changing as tournament scores are entered on his control card in the NRA office. While this keeps every shooter's classification up to date it also makes the publication of a classification book impracticable. Such a classification book would become obsolete before the job of printing it could be completed, and would be of little value to tournament sponsors, league secretaries or the shooters themselves.

The rules place the responsibility on each competitor for entering matches in his correct classification. Tournament sponsors can check classifications by examining cards when competitors register, or, where advance entries are taken, when the squadding tickets are given out for the first match of a tournament. Competitors having neither Official NRA Classification Cards nor Score Record Books are required to fire in the Expert Class. At the NRA Office a close check is made on the classification of all shooters through the posting of their tournament scores to classification records and through official bulletins turned in by tournament and league officials.

PISTOL COURSE

Clubs desiring to shoot the pistol or revolver course for DCM qualification should be sure to obtain the new DCM Form 12 (Pistol or Revolver Qualification) which is revised to agree with FM 23-35, dated 10 June 1946.

Clubs submitting the old form and firing the old course will receive no badges or credits.

New forms will be sent on request to the Director of Civilian Marksmanship, Department of the Army, Washington 25, D. C.

H & R RIFLE REPLACEMENTS

During the war special arrangements were made between the NRA and the Harrington and Richardson Arms Company of Worcester, Massachusetts, whereby a quantity of newly designed .22 H & R target rifles, model 365, were offered for sale to NRA affiliated summer camps and junior rifle clubs. The rifles were a wartime product and some of them undoubtedly caused difficulty through defective material or workmanship due to wartime conditions.

Mr. Cowdrey, President of H & R, has just informed us that arrangements have been made to exchange, without charge, any unsatisfactory H & R, model 365, rifles originally purchased through the NRA under the plan. The Harrington and Richardson Company is to be complimented on their effort to replace these wartime made rifles with arms manufactured according to the more exacting standards and materials of the present time.

Camp Directors or Clubs to whom this offer will apply should write to Mr. Stuart C. Bowren, Sales Manager, Harrington and Richardson Arms Company. All correspondence concerning such replacement is to be carried on with the H & R Company.

THE CLUB OFFICER'S GUIDE

Something new in the way of assistance to NRA club officers is being inaugurated this year in the form of a loose-leaf "Idea Book."

Some of the old-timers will recall that several years ago the NRA had a very popular little manual called the "Club Secretary's Idea Book." Though popular the booklet soon became obsolete and had to be retired from print. It was realized at the time that the only truly satisfactory aid of this type to club officers would be a completely flexible book. A manual to which additional information could be added as it became desirable and from which obsolete material could be withdrawn and destroyed.

The new "Club Officer's Guide" is designed as a loose-leaf manual that can be retained in an ordinary three ring loose-leaf binder of the school notebook type. Some of the filler pages have already been mailed to club secretaries and many others are planned on a wide variety of subjects. Pages, making up a complete article, will be mailed out to all NRA clubs from time to time as they can be completed. There will be no cost for the pages and club officers who retain articles as received will, in a very short while, have a valuable and completely modern guide to better club management.

Subjects already completed include league organization and management, club qualification firing, club secretary's financial record and the yearly free issue of the NRA Club Champion award. Other major subjects that will be treated in articles to be released shortly will include DCM information, registered tournament regulations, tournament management, club publicity, fire-arms legislation, marksmanship instruction and general NRA information.

All of the pages for the "Club Officer's Guide" will be on 8½x11 stock and will be pre-punched for the standard three ring notebook binder.

Coming Events . . .

The four classes of registered tournaments are indicated as follows:

AA—National Matches.
A—Regional Tournaments.
B—State Championship or large district matches.
C—Local Tournaments.
Un—Indicates tournaments that are not registered.

Tournaments requiring Advance Entries are indicated by **Adv.** and tournaments that plan to limit the entries to a predetermined number are indicated by **Ltd.**

MARCH

7 Washington (C)—Anacortes Gallery Rifle. W. E. Scribner, 1705 6th Street, Anacortes. **(Ltd.)**

3-7, Florida (A)—National Mid-Winter Small Bore. Neil Cocking, 780 24th Avenue, No., St. Petersburg 5.

7, California (C)—Small Bore Rifle Tournament. Chilton DeWitt, 3701 Lincoln Avenue, Oakland.

7, Washington (C)—Capitol Pistol League 2nd Winter Match. Frances S. Edwards, P. O. Box 252, South Bend. **(Adv. & Ltd.)**

7, Colorado (C)—Southern Division Gallery Rifle Tournament. J. W. Woolrey, 606 Woodlawn, Canon City.

6-8, California (B)—Desert Cavalcade Pistol Tournament. Margaret Poindexter, 146 South Sixth, El Centro. **(Adv. & Ltd.)**

7, Minnesota (C)—Upper Mid-West Gallery Rifle Tournament. Albert Brevig, 2200 Irving No. Minneapolis 11.

9-13, Florida (A)—National Mid-Winter Pistol. P. O. Box 253, Tampa. **(Adv. & Ltd.)**

12-14, Illinois (B)—Mid-West Gallery Rifle Championship. Clarence E. Zink, 8827 S. Leavitt St., Chicago. **(Adv.)**

13-14, New York (B)—9th Annual 100 Yard Small Bore. Andrew S. Kreitner, 175 North Street, Buffalo, 1. **(Adv.)**

14, Oregon (C)—2nd Annual Gallery Rifle Championship. A. P. Tauscher, 1849 S. W. Salmon Street, Portland. **(Adv. & Ltd.)**

13-14, New York (C)—Spring Gallery Rifle. Irwin N. Tekulsky, 168 West 86 Street, New York, 24.

13-14, Nebraska (C)—Platte Valley Gallery Rifle Championships. Paul W. Anderson, 1423 2nd Avenue, Scottsbluff.

17-20, Florida (B)—Flamingo Open Pistol Tournament. A. T. Kelley, Jr., P. O. Box 43, Coral Gables. **(Adv. & Ltd.)**

17-21 Cuba (UN)—Pan American Pistol & Revolver Club De Pistola De La Habana. Manzana De Gomez, No. 520, Havana.

21, California (C)—San Francisco Police Monthly Pistol Tournament. E. J. Dutil, 324 16th Avenue, San Francisco.

20-21, California (B)—Pacific Coast Rifle Championship. Gladys Rising, 600 N. Mayo, Compton. **(Adv. & Ltd.)**

21, Washington, D. C. (C)—Monthly Gallery Pistol Tournament. T. G. Arnold, 5308 41 Place, Hyattsville, Md. **(Adv. & Ltd.)**

20-21, Iowa (C)—Indoor 50 Yard and 50 Meter Tournament. Box 1395, Des Moines. **(Adv. Ltd.)**

21, Washington (B)—Washington State Gallery Rifle Championship. C. M. Styer, 120 West Hudson Street, Seattle. **(Adv.)**

20-21, Idaho (B)—Idaho State Gallery Rifle Tournament. C. N. Rosa, 151 Addison, Twin Falls.

20-21, Idaho (B)—Idaho State Pistol Tournament. C. N. Rosa, 151 Addison, Twin Falls.

APRIL

3-4, California (B)—State Smallbore Championship, Fresno. R. I. Wisler, Box 637, Belmont.

3-4, Indiana (C)—Oil City Gallery Pistol. George W. Boswell, 1946 Lake Avenue, Whiting. **(Adv.)**

3-4, New Jersey (C)—Gallery Rifle Tournament. Beulah P. Hostetter, Cranford Hotel, Cranford.

4, Wyoming (B)—Wyoming State Gallery Rifle Championships. Vance Leeper, Box 56, Douglas.

4, Vermont (B)—9th Vermont State Pistol. Louis B. Tims, 4 Wilder St., Montpelier. **(Adv.)**

10-11, Louisiana (C)—First Annual Magnolia Rifle Tournament. Peggy Bumpers, Box 1426, Lake Charles. **(Adv.)**

11, Ohio (B)—20th Annual Ohio Gallery Pistol. Cpl. A. L. Schmieg, 1117 East Broad Street, Columbus.

11 Washington (C)—Capitol Pistol League Championship Match. Frances S. Edwards, P. O. Box 252, South Bend. **(Adv. & Ltd.)**

11, Oregon (B)—Gallery Rifle Tournament. A. P. Tauscher, 1849 S. W. Salmon St., Portland, 7.

11, Pennsylvania (C)—Gallery Rifle Tournament. Fenton F. Thompson, 5527 Miriam Road, Philadelphia.

11, Washington D. C. (C)—Monthly Gallery Pistol Tournament. T. G. Arnold, 5308 41 Place, Hyattsville, Md. **(Adv. & Ltd.)**

17, New York (C)—2nd Annual Eastern Seaboard Indoor Dewar Championship. Peter B. Payne, Box 75, Scotch Plains, N. J. **(Adv. & Ltd.)**

18, California (C)—San Francisco Police Monthly Pistol. E. J. Dutil, 324 16th Avenue, San Francisco.

18, California (C)—Small Bore Rifle Tournament. Chilton DeWitt, 3701 Lincoln Avenue, Oakland.

18, Illinois (C)—Gallery Pistol Tournament. Clarence E. Zink, 8827 South Leavitt St., Chicago. **(Adv.)**

25, Texas (C)—Rifle Tournament. Tom Street, Box 94, Waco.

25, California (C)—Club Members Rifle Tournament. Gladys Rising, 600 N. Mayo Ave., Compton.

24-25, Kansas (B)—Kansas State Gallery Rifle. C. A. Templer, 1121 N. Juliette, Manhattan.

24-25, Texas (C)—Fiesta of San Jacinto Small Bore Rifle Tournament. H.E. Fuller, 208 Luther Drive, San Antonio.

24-25, Pennsylvania (B)—4th Annual Gallery Pistol State Championship. W. H. Riethmiller, 421—7th Ave., Pittsburgh. **(Adv.)**

10-11, New York Un)—Spring Individual and 2 Man 100 Yards. Irwin Tekulsky, 168 West 86 Street, New York 24.

4, Wisconsin (Un)—1st Annual Coulee Region Rifle Tournament. Earl J. Lucas, 801 North Water Street, Sparta.

MAY

2, Texas (C)—Rifle Tournament (restricted). H. J. Sides, 2654 Easter, Dallas 16.

2, California (C)—Pistol Tournament. Claire A. Bourelle, 2114 W. 84th St., Los Angeles.

2, California (C)—Small Bore Rifle Tournament. Chilton DeWitt, 3701 Lincoln Avenue, Oakland.

2, Pennsylvania (C)—4th Annual Spring Small Bore, Locksley Station. Cynthia Roberts, 1226 Harding Drive, Upper Darby.

8-9, Maryland (C)—2nd Annual Pistol Tournament. Joseph A. Skinner, 1211 Eastern Avenue, Baltimore 21. **(Adv. & Ltd.)**

9, Idaho (B)—Idaho State Pistol Tournament. William Buskett, 2202 Madison Ave., Boise. **(Adv.)**

9, Connecticut (C)—Spring Smallbore Championship, Wallingford. Harold R. Scutz, 241 East Main, Meriden.

9, Pennsylvania (C)—12th Annual Spring Small Bore. Alfred M. Newhard, 111 East Susquehanna St., Allentown. **(Adv. & Ltd.)**

15, New York (Un)—.30 Caliber 200 Yards. Irwin Tekulsky, 168 West 86 Street, New York 24.

16, New York (C)—Rifle Tournament. J. Von Knoblauch, 25 Manchester Road, Poughkeepsie.

15-16, Florida (C)—Annual Spring Rifle Tournament. R. O. Sinclaire, 333 Seaspray Ave., Palm Beach.

16, California (C)—San Francisco Police Monthly Pistol. E. J. Dutil, 324 16th Avenue, San Francisco.

15-16, Ohio (C)—3rd Annual Ohio Valley Championship . Betty Vandeveer, 8000 Hamilton Avenue, Cincinnati. **(Adv.)**

16, Oregon (C)—.22 Caliber Rifle Tournament. A. P. Tauscher, 1849 S. W. Salmon St., Portland 7.

15-16, Texas (B)—Southwestern Rifle Tournament. V. A. Moore, 208 N. Akard Street, Dallas.

22, New York (C)—Metropolitan Outdoor Rifle Championship. Irwin Tekulsky, 168 West 86 St., New York 24.

23, Washington (C)—Rifle Tournament. George Conner, R. R. No. 9, Spokane 15.

23, Vermont (C)—Fellows Small Bore Tournament. Richard Wienka, R. F. D. No. 3, Springfield.

22-23, Pennsylvania (C)—2nd Annual Central Pennsylvania Small Bore. Mrs. Ella P. McElwee, 425 South 13th St., Harrisburg. **(Adv.)**

23, Wisconsin—.30 Caliber Rifle Tournament. K. W. Cruse, 310 U. S. Post Office Building, La Crosse.

22-23, North Carolina—North Carolina State Pistol and Revolver Championship. Frank G. Satterfield, Jr., 2119 W. Club Blvd., Durham. **(Adv. & Ltd.)**

23, Illinois (C)—Small Bore Tournament. Mrs. Lew Mason, 473 Oak Avenue, Aurora.

29-30, Virginia (C)—2nd Annual Gallery Rifle. H. T. Grissom, Box 626, Portsmouth.

29-30, Texas (B)—Small Bore Rifle Match. H. H. Hankey, P. O. Box 287, Austin 2.

30, Pennsylvania (C)—Memorial Day Rifle Tournament. E. W. Cook, 926 Orr Avenue, Kittanning.

29-30, New York (C)—2nd Annual Spring Pistol Tournament. Martha W. Strahan, 30 Arnold Blvd., Poughkeepsie. **(Adv. & Ltd.)**

31, Pennsylvania (C)—Spring Rifle Tournament. R. B. Barry, 407 Second Avenue, Altoona. **(Ltd.)**

JUNE

6, Massachusetts (C)—Deerfield Valley Small Bore Rifle Tournament. Frank R. Hancock, 115 Main Street, Shelburne Falls, Mass.

5-6, California (B)—Western States Championship. Chilton DeWitt, 3701 Lincoln Avenue, Oakland.

6, Pennsylvania (C)—Philadelphia Area Small Bore. George N. Dewees, 3549 Oakmont Ave., Philadelphia.

6, Iowa (C)—Restricted Small Bore Rifle Tournament. Box 1395, Des Moines 5.

6, Michigan (C)—Small Bore Rifle Tournament. W. S. Bailey, 1764 O'Connor, Lincoln Park.

6, New York (C)—Rifle Tournament. Bert J. Czwakiel, 517 New Scotland Ave., Albany.

5-6, Pennsylvania (C)—Pistol Tournament. F. H. Wells, 3800 Hillcrest Rd., Harrisburg. **(Adv.-Ltd.)**

6, Pennsylvania (C)—Rifle Tournament. Wm. M. Shaffer, 29 First St., North Vandergrift.

13, Michigan (C)—Pistol Tournament. Lt. H. G. Schlupe, Ann Arbor Police Department, Ann Arbor, Michigan. **(Ltd. & Adv.)**

13, Maryland (C)—Western Maryland Small Bore Championships. Gurney A. Beeman, 39 Beall St., Frostburg. **(Ltd.)**

12-13, Connecticut (B)—Connecticut State Rifle Championships. A. J. Griffin, c/o Lyman Gun Sight Corporation, Middlefield.

11-12-13, Maryland (B)—9th Annual Maryland Revolver and Pistol Championships. G. F. Huesman, Sparrows Point Police Department, Sparrows Point 19. **(Adv.)**

13, Illinois (C)—Small Bore Rifle Tournament. Byron E. Putman, 814 Ellis Ave., Wheaton.

13, Pennsylvania (C)—4th Annual Summer Small Bore Tournament. Cynthia Roberts, 1226 Harding Drive, Upper Darby.

19-20, New Mexico (C)—Small Bore Tournament. Earl F. Ross, 315 Tesuque Drive, Santa Fe.

20, Oregon (C)—Pistol Championship. A. P. Tauscher, 1849 S. W. Salmon St., Portland 7.

20, Pennsylvania (C)—Summer Small Bore. Alfred M. Newhard, 111 E. Susquehanna St., Allentown. **(Adv. & Ltd.)**

20, Indiana (C)—Small Bore Rifle Tournament. Waunelis Heise, 316 Warren Bldg., Michigan City, Ind.

26, Oregon (C)—Rifle Championship, Clackamas. A. P. Tauscher, 1849 S. W. Salmon St., Portland.

26, Alabama (C)—Small Bore Rifle Tournament. J. D. Clem, 315 So. 70 St., Birmingham.

27, Vermont (C)—Small Bore Rifle Tournament. David T. Farrelly, 12 Court Street, Woodstock.

27, California (C)—Club Members Rifle Tournament. Gladys Rising, 600 N. Mayo, Compton.

27, Maryland (C)—Small Bore Rifle Tournament. E. W. Stockhausen, 4614 Marble Hall Road, Baltimore.

JULY

4, Montana (C)—Rifle Tournament. Fred J. Mesenko, 700 Oak Street, Anaconda.

3-4-5, Altoona (B)—Rifle Tournament. R. B. Barry, 403 Second Avenue, Altoona.

11, Pennsylvania (C)—All Night Dewar. E. W. Cook, 926 Orr Avenue, Kittanning.

11, California (C)—Small Bore Rifle Tournament. Chilton DeWitt, 3701 Lincoln Ave., Oakland.

17-18, Illinois (C)—Black Hawk Open Small Bore. Mrs. Lew Mason, 473 Oak St., Aurora.

18, Massachusetts (C)—Small Bore Rifle Tournament. Frank R. Hancock, 115 Main St., Shelburne Falls.

24-25, Pennsylvania (C)—Rifle Tournament. C. W. Seuseman, 425 So. 13th St., Harrisburg.

One Enfield M1917 .30-'06 rifle, converted to .220 Swift. Serial No. 1048971, walnut bishop stock, Weaver K-1 sight, with Litschert Varmint Master scope attached, has 26-inch Tecalli barrel. Thomas B. Kincaid, 530½ Louisiana St., Lawrence, Kansas.

One 1911 Model Automatic pistol, Ithaca, Serial No. 1844412. Mitchel C. Loftis, 8276 Ford St., Van Dyke, Mich.

One Model 42 Winchester .410 pump new, Serial No. 615585. One 16-gauge Model 12 Winchester, raised rib, Serial No. 951140. Remington Model 24 Short only. Colt's Woodsman 4½-inch barrel. One 11 Mercury camera, and pair of Universal Field Glasses. Don Shelton, 263 Bond St., Marseilles, Ill.

One .38 caliber Smith & Wesson, Serial No. 643809. Walter Lach, Railroad Street, Manor, Pennsylvania.

One Argus Super Grade Spotting Scope, Serial No. 11281 and tripod. Leo E. Leasure, 307 Bedford St., Cumberland, Maryland.

One Model 99 Savage .30-30 carbine, Serial No. 342561. Reward Roy R. Nelson, 403 Blackstone Drive, Erie, Penna.

One .38 Smith & Wesson revolver, tip up and side latch, 3¼-inch barrel, blued finish, rubber grips, Serial No. 37405. S. H. Heffner, 836 Punta Gorda St., East McKeesport, Penna.

One .250 caliber Magnum Sporter on Mauser action, Serial No. 6252, with K2.5 and Litchert 6X Conversion, Redfield Jr. Mount. Reward. J. Chaffin, 1407 Denver, Kansas City, Mo.

One Model 52 Winchester, Serial No. 28960, barrel shortened to 25 inches. Paul M. Elder, 916 Foster Ave., Coeur D'Alene, Idaho.

One perfect condition Winchester Hi-Wall nickel steel, double-set trigger, action No. 101354. Brown & Edgar, 10320 Stagg St., Roscoe 3, Calif.

GALA SHOOTS

Having Florida and California vie for State honors is nothing new. But early this month they do it for the first time with gala winter outdoor shoots . . . and, the tournament shooter benefits. Florida comes back with its old standbys, the National Mid-Winter Pistol Matches at Tampa, March 9-13, the Flamingo Open Pistol Matches at Coral Gables, March 17-20, and the National Mid-Winter Smallbore Championships at St. Petersburg, March 3-7.

California bucks this schedule for the first time with its Desert Cavalcade Internationals at Calexico, from March 6-8. The Florida shows will concentrate on shooting while California will also ring in the glories of the old west during its three-day carnival.

DOPE BAG

Conducted by Major General J. S. Hatcher

Edwards Brown, Jr., A. H. Barr, J. S. Rose

Neat K-43 Conversion • Bullet Casting Problems • Bluing Problems • Semi-inletted Stocks • Texan Scope Adjustments Optical Lens Replacement • Monette 8-Power Prism Monocular • Echo Mount Changes • Trade Dope • Book Reviews

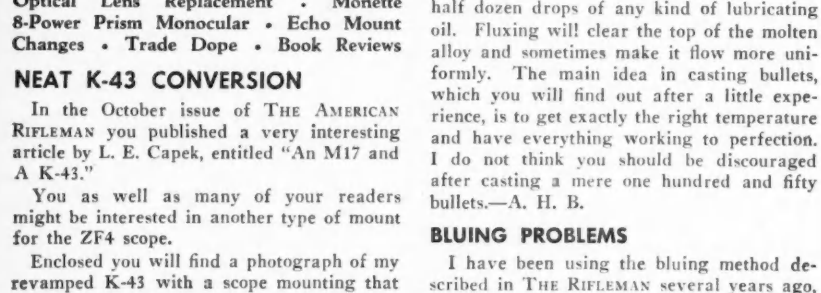
NEAT K-43 CONVERSION

In the October issue of THE AMERICAN RIFLEMAN you published a very interesting article by L. E. Capek, entitled "An M17 and A K-43."

You as well as many of your readers might be interested in another type of mount for the ZF4 scope.

Enclosed you will find a photograph of my revamped K-43 with a scope mounting that is quite different than the one Mr. Capek described.

This type of mount is somewhat easier to make and I believe better looking. Anyway I have found it most satisfactory.



The stock on this K-43 has been reshaped and the sight mounting utilized as an anchor for the scope

You will also note several changes in the K-43. The stock is shortened and reshaped, and decorative inlays cover the strap holes. The magazine is cut down to hold five shells instead of the original 10. The gas-operated receiver release has been altered, and the long coil spring has been replaced with an internal spring inside the gas cylinder. The iron sights have been removed and the rear sight mounting furnishes a splendid anchor for the front of the scope.—DR. HEWES O. HARRIS, Billings, Montana.

BULLET CASTING PROBLEMS

A few months ago I purchased a new bullet mold for the .30-'06 caliber. To date I have cast about one hundred and fifty bullets from this mold, and have been unable to get a single perfect bullet. I am using a metal of ten parts lead and one part tin, as rec ommended by the mold makers. I am also using a Merit melting pot from which to cast these bullets. I am enclosing two samples of bullets made in the hope that you will be able to tell me what I am doing wrong.—H. B. DILLARD, Dallas, Texas.

Answer: There is usually a trick to casting perfect bullets, and I note you are having your problems. In the first place, I do not think your lead is hot enough or perhaps your bullet mold is too cold or not cleaned thoroughly to remove all traces of oil and grease. What I would recommend is to lay the bullet mold on top of the alloy as it is being melted su that the temperature of the mold comes up. This heating of the mold will eliminate some of the flaws which I note on the two samples of bullets you enclosed.

Sometimes it is advisable to flux your alloy, which can be done by using about half dozen drops of any kind of lubricating oil. Fluxing will clear the top of the molten alloy and sometimes make it flow more uniformly. The main idea in casting bullets, which you will find out after a little experience, is to get exactly the right temperature and have everything working to perfection. I do not think you should be discouraged after casting a mere one hundred and fifty bullets.—A. H. B.

BLUING PROBLEMS

I have been using the bluing method described in THE RIFLEMAN several years ago, a mixture of one part nitrate of soda and two parts lye. I have been getting a wonderful job on all parts except some hardened or tempered parts, such as the Mauser receiver, which have a tendency to turn red. If you can give me any help on this I would greatly appreciate it.—BERNARD MOYER, Renton, Pa.

Answer: While I have blued most all kinds of steel which will blue in the lye-nitrate bluing solution, I have found that high alloy steel requires a longer bluing time. It also requires an exceptionally high polish before bluing. This is particularly true for case-hardened parts or steel having a rather high alloy content, such as nickel steel.

Some variations of the solution sometimes are necessary. One of these is by weight 75 percent sodium hydroxide, 20 percent potassium nitrate, and 5 percent sodium nitride. For every 10 pounds of this salt solution you would use 12½ pounds of water. The bluing temperature will be lowered somewhat and you could start at 260 degrees although a deeper finish will be obtained by letting the temperature go up to 280 to 290 F. degrees or leave the parts in longer than for the average job.—A. H. B.

SEMI-INLETTED STOCKS

Sometime ago we mentioned an inletting service available through W. R. Hutchings, 508 E. 23rd St., Los Angeles 11, Calif. Since then we have fitted one of these stocks to an Enfield rifle. The inletting is quite clean, but naturally some additional fitting was necessary for a finished job.

Every Hutchings blank we have seen is made from good close-grained walnut wood. For the inletting experience we fortunately selected the Enfield, which Mr. Hutchings says is the most difficult of all actions to inlet properly. We did find ample wood in the blank for close fitting around both the barrel and receiver assembly and trigger guard. The contour of the action on the inside of the stock was followed quite closely to insure a snug fit of all action parts.

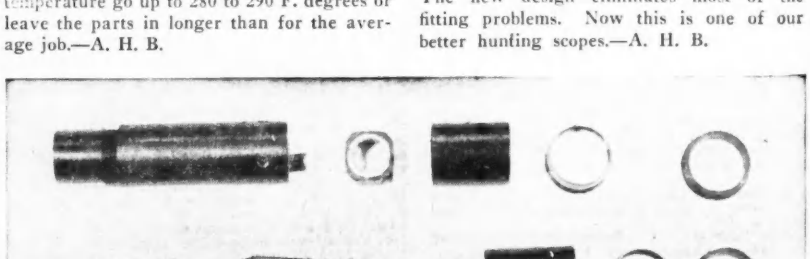
One thing is certain—of the half dozen Hutchings stocks we have seen and used, all were of the same quality. The wood was plain walnut, properly laid out and uniformly inletted. These included stocks for Mauser, Enfield, and Springfield actions. —A. H. B.

TEXAN SCOPE ADJUSTMENTS

The Texan scope has always appealed to us from the standpoint of optics, but in any new product there is usually opportunity for improvement. This is the case with the Texan scope, and through our friend Bob Thomas we have compared the internal adjustments of the original Texan and the one of the latest design. There is an improvement on the original design.

The new creation is made on the principle of the ball and socket joint, which has proven to be about as accurate as any other system of internal windage and elevation control. Our experience with one of these scopes indicates quite positive adjustments and less error when assembling the movable parts. The illustrations will show the changes which have been made in the internal adjustments.

These adjustments, at least in the scope we used, are quite reliable and they respond to any movement of the windage and elevation screws. This new design has been in effect since about June, 1947. In the original design the parts of the adjustments had to be fitted quite accurately to be effective. The new design eliminates most of the fitting problems. Now this is one of our better hunting scopes.—A. H. B.



Changes of internal adjustments in Texan scopes. Old adjustments are at top, new at bottom

OPTICAL LENS REPLACEMENT

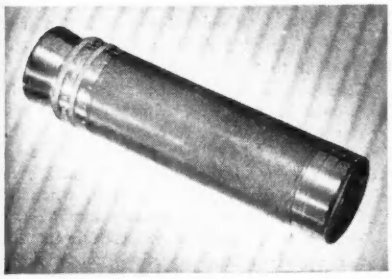
The Mirakel Repair Co., 14 W. First St., Mount Vernon, N. Y., informs us that, in addition to the large number of standard-type lenses now in stock, they can match any lens or prism by making them to order. Before replacement was possible the Mirakel Company was reluctant to undertake the coating process on irreplaceable lenses. There is a rather remote chance that a lens will be damaged during the coating process.

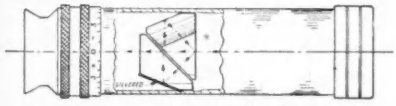
Now through this company any lens or prism can be duplicated, so no one takes a chance on the coating process for any optical equipment. This should be good news to owners of some of those fine foreign-made binoculars. At least it was for me, and I immediately took advantage of the opportunity to have the lenses of my 6 x 42 Hensoldt prism binocular coated. The breakage percentage in the coating process is quite small, but there is always a chance to take when replacement components are unobtainable.—A. H. B.

THE MONETTE 8-POWER PRISM MONOCULAR

The Kollmorgen Optical Corporation, of Brooklyn, New York, has long been known as a source of high grade optical instruments for military, naval, and industrial uses. The firm has not heretofore been as well known to the civilian user as the excellence of its products would warrant.

Recently, however, the organization has decided to manufacture complete optical products to be marketed under the firm name. The first venture into this field is a most attractive and useful 8-power prism telescope of remarkable compactness and light





Outside view and schematic diagram of Monette Monocular 8X Prism

weight. Surprisingly, this 8-power prism monocular, weighing only 5½ ounces, is but an inch and a quarter in diameter and has a length of less than 5½ inches, no greater than that of the average fountain pen.

Mr. E. O. Kollmorgen is quite justifiably proud of the fine quality of the optics in this new glass. During a recent visit to NRA Headquarters, he told us that several months were spent in computations to secure the excellent corrections embodied in the lens system.

Many war-developed features were incorporated, including a novel Z-type erector prism together with fully coated optics.

The unique Z-prism is a small block of crystal clear glass in which the light is reflected back and forth, finally emerging with

STOCKMAKERS—GUNSMITHS

Professional and amateur

Semi-Inletted STOCKS

Presenting a new semi-inletted stock designed and machined for CUSTOM work. Action cuts are .030 undersize. No plastic wood needed to fill gaps. Wood left for all contour and lightning cuts in action and guard. Magazine fits properly at the front and rear. All popular alterations such as ground tang and narrow guard accommodated. Forearm left square for layout of ANY size barrel. Monte Carlo comb and ample cheekpiece. Plenty of wood for any reasonable dimensions. Prices start at $12.50 F.O.B., Los Angeles. Available in Black or English Walnut for Enfield, Springfield, Mauser, Mauser Carbine, Krag.

Inletted pistol grip blanks, not shaped, $3.00 and up for Colt O.M., O.P., S & W, M.P. and K

W. R. Hutchings ◆ 508 E. 23rd St. Los Angeles 11, Calif. Phone PR 0804

Personalized Recoil Pads

Patent Pending

IDENTIFY YOUR GUNS

Position Guns Correctly • Improve Your Shooting

Available in green, light or dark brown. Print name clearly. State make, model, gauge or calibre.

Descriptive Folder Free

$5.50 postpaid. Check or Money Order

INDIVIDUAL RECOIL PAD CO.

P.O. Box 2004-A Sacramento, California

RUGGED? YOU BET!

BELL WATER-SHOCK RESISTANT

Handsomely styled, precision tested, built to take hard usage, ready to go places.

No. TC 220—ALL-STAINLESS STEEL CASE, 17 jewels, anti-magnetic, radium dial and hands, unbreakable crystal, sweep second hand. (Price includes Fed. Tax and Postage)..... $29.95

NOW AT NEW LOW PRICES

Order Direct from BELL. Mail check, money order or pay C.O.D. Write for FREE Booklet "TC"

BELL WATCH COMPANY, INC.

9 Rockefeller Plaza, Suite 909, New York 20 N.Y.

WEAVER SCOPES

Seven WEAVER-SCOPES to choose from . . . seven great models, each designed to do a specific job, and at a cost that is most reasonable. You'll get more pleasure out of your shooting, whether big game, varmints, or just plinking, with a WEAVER-SCOPE. See them at your dealer's today.

K2.5—Best all-around hunting scope on the market. $37.50

K4 and K6—Higher-powered for longer range shooting. K4, $45.00; K6, $48.50

J2.5—A fine, medium-priced scope for all rifles. $22.50

J4—A four-power scope of moderate price. $27.50

G4 and G6—Excellent scopes complete with mounts for .22's and other rifles of light recoil. G4, $9.75; G6, $12.50

Weaver-Mounts- Sturdy, dependable, for nearly every rifle, $2.00 to $6.25.

Use the coupon below for complete information about WEAVER-SCOPES, also the Weaver-Choke for your shotgun.

Please send folders on WEAVER-SCOPES and Mounts

Model K ☐ Model J ☐ Model G ☐

K Model Reticules ☐ Weaver-Choke ☐

Name _____

Address _____

City _____ Zone _____ State _____

W. R. WEAVER COMPANY

★ DEPARTMENT I EL PASO, TEXAS ★

Choose the Best Tools for Reloading

A SHOOTER'S RELOADING BENCH

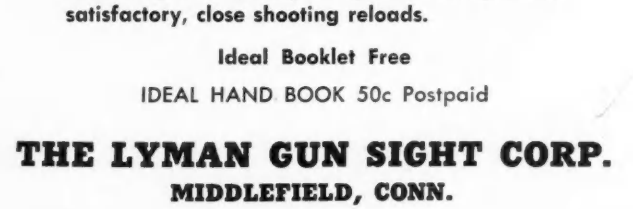
Ideal Bench and Hand Tools Produce Accurate Reloads

When you are after the best results in hand loaded ammunition, all of your requirements are found in the complete line of Ideal Reloading Tools and accessories. Ideal Tools are widely used in this country and throughout the world. They serve the shooters best because they are accurately made, easy to operate and produce satisfactory, close shooting reloads.

Ideal Booklet Free

IDEAL HAND BOOK 50c Postpaid

THE LYMAN GUN SIGHT CORP.
MIDDLEFIELD, CONN.



FINE CUSTOM ENGRAVED RIFLES—.220—.257—.270—7M.
A FEW AVAILABLE FOR DELIVERY. CUSTOM SHOTGUNS ON WEBLEY & SCOTT ASSEMBLIES.
DELIVERY ABOUT 6 MONTHS ON SHOTGUNS.
ROY VAIL, Warwick, N. Y.

He Barks! He No Barks!!
Anti-Bark Bridle

Stops Barking and neighbors' complaints. Easy on dog. Practical muzzle for dogs at large. Insurance against killing sheep and poultry. Made in 3 sizes, each adjustable. Name breed wanted for. Price postpd—$1.00. Extra large Dogs over 60 lbs.—$1.50.
Send for FREE catalog.
WARNER'S PROD. CO., Dept. R., Baldwinville, N.Y.

FOR HAND LOADERS
GUN-KRANK LOADING BLOCKS
Precision-Bored—Solid Walnut—Flat-Bottom Holes
Rifle Blocks, 50 Holes—$2 each, Postpaid
Pistol Blocks, 20 Holes—$2 pair, Postpaid
When Ordering, State Calibre—No C. O. D.'s
Air Dried Walnut Stock Blanks, $5 to $20
B. EDMONDSON, R. 2, Box 382, Springfield, Mo.

the image erect and in line with the entering rays. Never before used except in military instruments, the *Z*-prism provides straight-line viewing, no offsets, and the ultimate in compactness—it cuts the length of the instrument by *two-thirds*. Moreover, the omission of an erector lens system aids in securing flatness of field and crisp definition.

This new prism scope has no draw tubes, no bulky off-sets, no fussy adjustments, no cumbersome straps or cases. In its suede leather case it can be carried with ease in pocket or handbag, yet when a close view is needed, its 8-power magnification is instantly available.

An excellent feature of this powerful little glass is the manner in which it has been adapted to the use of an owner who wears spectacles. The optical system has been purposely computed to provide an extraordinarily generous eye relief. The glass comes fitted with an eye shield which holds it at just the right distance from the eye for the user who does not wear glasses. If glasses are worn, this eye shield is unscrewed and taken off, and the back end of the telescope is held directly against the spectacle lens, which is a position that automatically gives the right distance from the eye for best results and maximum field of view.

The mechanical parts are constructed of strong, tough aluminum alloy, and are finished inside and out with the exceedingly durable Alumilite finish, which is black in the DeLuxe grade instrument selling for $49.50 and a rich gold color in the $59.50 Custom model. Both grades have the body covered with top grain leather—black for the DeLuxe, and light brown for the Custom job.

Both models are the same except for the finish. They have a magnification of 8-power, with a 30 mm. objective, and a true field of view of 5 degrees and 41 minutes, equivalent to 300 feet at 1000 yards.

This would certainly be a fine glass to take on a hunting trip, as it is so light and compact that it could be carried in a pocket where it would be completely out of the way. Its presence would not be noticed until such time as the need for it was felt, when its full 8-power would be instantly available.

This new glass is now on sale at the better opticians and sporting goods shops throughout the country—J. S. H.

ECHO MOUNT CHANGES

That popular Echo side mount has been changed slightly from the original though no serious conversions have been needed. The simple changes are less protrusion of the locking screws and a dull, nonreflecting finish instead of the bright shiny surface. The new finish does not help the looks of the mount but apparently it is more serviceable than the old polished surface.

Included in a new line of bases are those for the Remington Model 141 and Model 81. The latter must naturally be offset to the left side of the receiver.

Many new plans for bases to fit other rifles are under consideration. These are to include bases for low-priced .22-caliber guns.

A new tip for tapping hard receivers is passed along by Mr. Herkner, the Echo mount manufacturer. Have the tap hard-chrome plated, .0001-inch thick or less, and the tapping procedure is simplified without dulling the tap.—A. H. B.

THE APACHE AIR RIFLE

The National Cart Corporation, 234 E. Colorado St., Pasadena 1, California, has produced an air rifle having a rather novel feature. As advertised through Klingelsmith & Co., this pneumatic rifle will handle round ball of two different sizes. An inner tube, which threads into the barrel, permits the use of regular BB (.175 inch) shot. This smoothbore tube is 20½ inches long and has a notch on the front end so it can be unscrewed with a coin. When it is removed, a larger .25 caliber round ball can be used in the regular rifled barrel.

The larger .25 caliber, 22-grain ball is not only more accurate than the BB shot, it is more powerful as well. At least one inch of soft pine can be penetrated and the pellet is well deformed, indicating plenty of power for short-range, small-game use. Only head shots should be considered though.

The rifle is 36¼ inches long and weighs 5½ pounds. The rifle we received has a molded plastic stock and pump handle. We understand all rifles of current manufacture have walnut stocks and forearms. The rifle is a single shot and the conventional pump handle is employed. The greatest penetration was obtained with eight pump strokes.

Accuracy is very good with the .25 caliber round ball, which seem rather expensive at 50 cents per hundred. A number of groups of ½ inch and less were made at 30 feet, this of course, using the open rear sight which is adjustable for elevation. There is a limited amount of horizontal control. The BB pellets, in this one gun at least, would not group nearly as well as the heavier slugs in the rifled barrel.

The rifle is to sell for slightly less than $25.00. It is a lot of gun for the money.—A. H. B.

GUNSMITH TRADE DOPE

W&S Guns, Chittenango, New York, a division of the Farmers and Traders Exchange, announce that they have a completely equipped gun shop and that they will custom design and alter modern arms and make period restoration of antique arms.

☆ ☆ ☆

Ray Riling, **Arms Collector Service,** 6844 Gorsten Street, Philadelphia, 19, Pa., has sent us a catalog of new books for shooter-collector-sportsmen as well as his leaflet covering old arms books. Both these booklets make interesting reading and list many excellent titles at very reasonable prices.

☆ ☆ ☆

Arthur Hanson of **Hanson's Custom Loadings,** Bonner Springs, Kansas, tells us he is now in full time duty supplying custom loads to shooters. All cartridges are packed in boxes of ten, and they are labeled to show the type of cartridge. Cases used for these reloads are washed and cleaned before loading and packing.

Specialties are the 6.5 mm. Mannlicher-Schoenauer, 7.7 mm. Japanese, and 8x57 mm, Mauser. Regular repeat customers is a boost for this reloading service.

☆ ☆ ☆

Mr. Billy Cox, of **Lava and Cox,** custom gunsmith, 6 Centre Market Place, New York 13, New York, writes that they will check DCM unserviceable rifles for members of the NRA free of charge. It is

...BEFORE YOU POINT THAT GUN!

IT'S safe and sane rules like this that you, as an experienced rifleman, can pass on to youngsters who want to learn to shoot!

Why let the neighborhood kids go off "half cocked" with rifles they don't know how to handle safely? Organize them into NRA-sponsored Ranger groups . . . teach them the *safe way to shoot* . . . help them win coveted Ranger emblems!

Mail the coupon for the Sportsmen's Service Bureau's instructional booklets, "Aiming for Sport," and "Rifle Shooting for Recreation." They're a *must* for young shooters learning the sport.

N·R·A RANGER

SPORTSMEN'S SERVICE BUREAU
343 Lexington Ave., New York 16, N. Y.
Send me copies of the free booklets, "Aiming for Sport" and "Rifle Shooting for Recreation."

Name.....
Street.....
City.....
Zone.....State.....

XS8-4

Advertisement sponsored by
HERCULES POWDER COMPANY INCORPORATED Wilmington 99, Delaware

Member American Gunsmiths Guild

RIFLE BARREL BLANKS
TOOL STEEL—PRETURNED—UNTURNED
Calibers 22, 25, 270, 7mm, .300, 35, 375, 40, 45.
Preturn muzzle sizes of .650, .750, .890. 1¼ inches by 28 inches.
Special twists at no additional charge.

Joe Pfeifer 7837 SANCOLA, ROSCOE 3, CALIF. *In Canada* **G. B. CRANDALL** WOODSTOCK, ONTARIO

Just Out!
AMERICAN FIREARMS
by Stephen Van Rennselaer
A life time's work by one of the country's leading gun experts. Lists all makers from early times to the present; describes and pictures their arms. 400 pages of vital information, beautifully bound. $5.00 postpaid, direct; money refunded if not satisfied.
CENTURY HOUSE Watkins Glen, N. Y.

FINE RIFLES
—Custom Built
Pfeifer Custom Barrels for Varmint, Target and Long-Range Hunting Rifles, fitted to your actions. Satisfaction guaranteed. Write for prices.
BROWN & EDGAR
Custom Gunsmith Service
10320 Stagg St. Roscoe 3, Calif.

UNIVERSAL Reloading Tools

These superior tools are built to load any standard center-fire, metallic pistol or rifle cartridge with ease and accuracy. Both Universal Tool models, A and B, are identical in all parts except for differences in the turret heads. Model A, illustrated at left, holds three dies in its indexed rotating head, sufficient to reload any single caliber cartridge. Model B, illustrated at right, fills the need of the shooter who owns guns of several calibers and wishes to keep his dies set-up and handy for immediate use.

The indexed rotating head holds 12 dies, sufficient to reload 4 or more sizes of cartridges. At most, all that is necessary to change on the tool when changing from one caliber to another might be the primer rod, the shell holder and the setting of the powder measure.

All our products are guaranteed. Universal dies are interchangeable with the fine Pacific dies and can be used either in the Universal Tools or the Pacific.

*Prices shown on the above tools include one complete set of dies for any one caliber (not including powder measure adapter die, which is $2.50 additional). Discount to Dealers.

At left, Model B tool. Retail price

$55.00*

Patent U.S.A.

Shown above, Model A tool Retail price

$47.50*

Prompt deliveries are assured on either Model A or Model B Tools and on Dies for the following calibers:

RIFLE DIES:

22 Hornet	30 M1Carb	.256 Newton
22 K Hornet	30 Rem.	30 Newton
22 Wilson Arrow	.300 Savage	35 Newton
.218 Bee	.300 H.& H.Mag.	.218 Bee CCC.
R-2 Lovell	30-40 Krag	.219 Zipper CCC.
.219 Zipper	30-06	22 Swift CCC.
.219 Imp'd Zipper	.303 British	22 H.P. CCC.
22 Savage H.P.	32-20	22 Varminter CCC.
.220 Swift	32 Win. Spl.	22-06 CCC.
22-250 Varminter	32-40	22 Magnum CCC.
22 Gebby Baby Var.	8 mm.	.250-3000 Sav. CCC.
22 Gebby Jr. Var.	8x57 rim mm.	.257 Roberts CCC.
22 Gebby Sr. Var.	8.15 X 46 mmr	25 Krag CCC.
.240 Gebby Super Var.	9 mm Mauser	25-06 CCC.
.240 Gebby Super Bltd.	9.3 x 62 mm.	25 Magnum CCC.
.25-20	.348 Win.	.270 CCC.
.250-3000 Savage	35 Rem.	.270 Magnum CCC.
25 Remington	35 Whelen	7 mm.-06 CCC.
.25-35	.351 Win.	7 mm. Magnum CCC.
.256 Jap	.375 Magnum	30-30 CCC.
.257 Roberts	38-40	30-40 CCC.
6.5 mm.	38-55	30-06 CCC.
.270 Winchester	.401 Win.	.300 Magnum CCC.
7 mm.	.405	.348 CCC.
.280 Ross	44-40	.375 Magnum CCC.
7 x 64 mm.	45-70	.375-06 CCC.
7 x 57 rim mm.	45-90	
30-30 Winchester		

PISTOL DIES:

25 A.C.P.	38 S&W	38-40
32 A.C.P.	38 ACP Super	44 S&W Spl.
32 S&W Long	380 A.C.P.	44-40
32-20	7x63 Mauser	45 ACP
38-S&W Spl.	7x65 Luger	45 Auto rim
.357 Magnum	9 mm. Luger	45 Colt rev.

Multi-Calibre Bullet Puller

Fits Universal or Pacific Tool

The Fasig Standard bullet puller with one standard collet only, $9.00. Standard Collet sizes .224, .257, .264, .278, .284, .308, .320, .357, .375. Extra Collets, standard size, $1.50 each. Special Bullet Puller with one special collet only $10.00. Special Collet sizes .44 and .45. Extra Collets, special size, $2.00 each. Pullers made of hardened steel, collets tool steel. Fully Guaranteed. Disc. to Dlrs.

We have built up one of the finest precision gunsmithing machine shops in the country. We repair and rechamber guns of all types. In addition, we carry one of the West's largest stocks of new and used guns, hunting and target accessories, reloading components, books and manuals for the shooter. When you want something for guns—contact Hollywood!

HOLLYWOOD GUN SHOP

LYLE S. CORCORAN, *Owner*

6032 Hollywood Blvd., Hollywood 28, Calif., Phone Hollywood 7266

TRADE-INS ACCEPTED

Our CONVERTED

LEFT-HAND, SPRINGFIELD or MAUSER,

in any calibre from $215 to $250; in Right Hand from $100 to $250. We equip them with any mount & scope.

WANTED—Mauser Magnum and Regular Springfield and Enfield Actions. State the quantity and price.

FRANK PUGLIESE : 2829 So. BROAD ST., TRENTON 10, N. J.

IF YOU ARE INTERESTED IN

SKEET

—send $3.00 for annual membership, which includes 12 monthly issues of the new Skeet Shooting Review. Or write for free folder, outlining the benefits of NSSA membership.

NATIONAL SKEET SHOOTING ASSOCIATION

1601 Rhode Island Ave., Washington 6, D. C.

PEARSON BULLETS

IMMEDIATE DELIVERY

TRY THEM OUT

22 cal. $2.80 per 100—25 cal. $3.75 per 100—270 cal. $4.00 per 100—30 cal. $4.00 per 100—8mm $4.00 per 100—Send for COMPLETE List and prices.

PEARSON'S GUN SHOP

4180 College Ave., Indianapolis, Ind.

necessary for a member to present his membership card when taking advantage of this offer.

☆ ☆ ☆

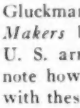
Thomas G. Samworth, who publishes those fine books on firearms, finds himself obliged to change his address even though he hasn't moved. This is because the Post Office Department is putting on a new delivery service which will operate to Samworth's establishment out of Georgetown, S. C. instead of from Plantersville. Georgetown and Plantersville are both about equally distant from Samworth's location, and Georgetown is a much larger city, with very much better postal facilities. The new address will be Box 508, Georgetown, South Carolina.

☆ ☆ ☆

Dale Michael, 229 Oakwood, Greenville, Ohio, did a very fine stock finishing job on one of our semi-inletted Bishop stock blanks. Stocks which are to be checkered should first be sent for the finishing work.

☆ ☆ ☆

P. W. Hookey & Son, 3986 E. Walnut Ave., Lynwood, California, have had plenty of experience shortening bolt actions for various short cartridges. Having been associated with another well-known firm who did this work, the Hookey firm should have acquired some valuable technique.



BOOK REVIEWS

AMERICAN FIREARMS

BY STEPHEN VAN RENSSELAER

This posthumously published volume, like *American Gun Makers* by Satterlee and Gluckman and *American Arms and Arms Makers* by Gardner, is primarily a list of U. S. arms fabricators. It is interesting to note how the Van Rensselaer book compares with these previous studies.

First, in regard to coverage, *American Firearms* contains more names than does either of its predecessors, yet it does not include all the names that they list. A tabulation of the listings under the letters "A" and "B" (between 400 and 500 in the Van Rensselaer book) reveals that he lists 107 entries not found in either of the others, but lacks 66 names contained in one or both of them. It should be noted, however, that not all of these 107 were gunmakers. Some made only swords or pikes. Some were government inspectors. Some were master armorers or gunsmiths who did only supervisory or repair work, and one collaborated with Jefferson Davis in establishing an arsenal. Although these men of related arms interest have been included, apparently there has been no attempt to make the listing complete in this regard. Even such an easily determined group as the government inspectors is only partially represented. In addition to these names there appear throughout such items as "cheek piece," "flint," or "spur," as if at one time it had been the author's intention to combine the function of a glossary with that of the list. If such were the case, the plan was probably cut short by his death.

A second comparison was made by selecting approximately 100 entries contained in all three books and collating them. In all cases there was general agreement. Occasionally they did not agree in the spelling

of a name or in an initial, although the other facts checked exactly. But these instances were the exception. Often one volume gave more information than another, but none did it consistently. Sometimes the wording was identical.

In general it might be said of *American Firearms* that when the comment is confined to the approximate date and place of operation and a description of an arm bearing the maker's name, it may be accepted as fairly reliable. However, when the author passes on to the history of an organization, the history or description of a type of weapon or other background and illustrative material, the reader must distinguish carefully between the valid fact, the outmoded tradition, and the downright error. Some of the errors may possibly be traced to faulty proof reading, such as placing John Brown's raid in 1839 rather than 1859. Perhaps even the statement that the Model 1795 Springfield was patterned after the Model 1777 Charleville may be explained that way. Unfortunately, there is no such ready explanation for the confusions regarding events in American history nor for the woeful lack of information revealed in the discussions of such entries as Nathan Starr and air guns.

Two other features remain to be noted. The volume is illustrated with a number of photographs of groups of guns. Most of the arms pictured are rare and interesting, although there is no apparent plan in the selection. And, stylistically, the writing reveals a proclivity on the part of the author for a most unusual use of the English language.—HAROLD E. PETERSON.

(Published by Century House, Watkins Glen, New York, 1947; 288 pages, illustrated. Available from Mrs. Stephen Van Rensselaer, 330 Speedwell Ave., Morristown, N. J. Price $5.00 postpaid.)

SHOTS FIRED IN ANGER

BY LT. COL. JOHN B. GEORGE

Here is a book that ought to be required reading for every Army Officer, as well as for every citizen who is interested in what happens in America in the next war. It is the first in a series of Samworth Books by fully qualified riflemen and members of the NRA who had an opportunity to carry and use their guns in actual warfare.

Johnny George was a rifle shooter from the tender age of seven who became a member of the Chicago Rifle Club and shot at Fort Sheridan. Later, as a member of the Illinois Civilian Team, he shot in National Rifle Matches at Camp Perry.

George was also a member of the National Guard who went to the Pacific early and saw much fighting on Guadalcanal. There he used his own telescope-sighted rifles, first the Winchester Model 70 which he took with him from the States, then a Springfield to which he fitted his Lyman Alaskan scope.

About half of the book is taken up with a splendid description of the months of fighting in the jungle. The rest discusses U. S. weapons, and those of the enemy, as seen through the critical eyes of a man whose life has depended many times on the performance of those weapons.

As to George's training, there was lots of everything except how to shoot and how to march—the most important of all. The rifle-armed members of his heavy weapons company were sent overseas wtih just 15 rounds of actual firing instruction apiece behind

PROMPT SERVICE!

Orders filled same day or letter will be sent explaining any delay—which is the exception rather than the rule.

You'll LIKE "Badger Service."

• TELESCOPE SIGHTS

Unertl 2"	$125.00
Unertl 1½"	90.00
Unertl 1¼"	78.00
Unertl 1"	58.00
Unertl Small Game	40.00
Unertl Varmint Scope	75.00
Lyman Super Targetspot (Some delay on Supers)	90.00
Lyman Jr. Targetspot	62.50
Lyman Alaskan	60.00
Weaver K-6	48.50
Weaver K-4	45.00
Weaver K-2.5	37.50
Weaver J-4	27.50
Weaver J-2.5	22.50
Weaver G-6	12.50
Weaver G-4	9.75
G & H Mounts	25.00
Echo Mounts	17.50
Redfield Jr. $10.75; $12.75 &	14.75
King-Pike Mounts	17.50
Buehler Mounts	15.00
Buehler Safeties (Prompt installation and bolt alteration service—low prices)	6.00

• METALLIC SIGHTS

Lyman 48 series $12.50 to	$14.00
Lyman 56, 57 & 58 series $6.00 to	8.00
Redfield Olympic Rear $15.75 fronts	8.50
Redfield 70 series	8.50
Redfield 102 series	5.75
Our Plain Ramp	2.50
Gold or Ivory bead fronts	1.25
Redfield Ramp; 24" Krag & Spr., 22" Enf.	8.50

• ACCESSORIES

BADGER SHOOTING KIT, specify tray or clamp model, add postage for 10#	$12.85
BADGER PISTOL KIT, without holder	19.50
with O'Dell Scope Holder attached Specify scope—add postage for 9 lb.)	24.50
BADGER HANDY BOX	1.25
BADGER SHEEPSKIN MITT	1.25
BADGER SLING KEEPER	1.00

• SPOTTING SCOPES

Unertl Right Angle	$96.00
Super Argus	74.50
Saturn	25.00
Davidson M/218	22.50
Freeland All Angle Stand	11.50
Freeland DeLuxe Off-set Stand	9.50
Argus (Freeland type) stand	8.50

• FIREARMS

Remington 513T	$ 53.50
Remington 521TL	34.95
Remington M/37	113.60
Smith & Wesson M&P (all sizes)	56.50
S & W Model K22	65.00

• RE-LOADING SUPPLIES

We probably have the largest stock of loading tools, accessories, primed cases, bullets, primers, etc., in the Mid-West. Write for catalog and current issue of our "HEADLINER."

BULLETS IN STOCK

219 Zipper 56 gr. H.P.	2.70
30/06 150 gr. F.J.	3.85
30/06 180 gr. HPCL	4.05

H.P.—Hollow Point or Mushroom; S.P.—Soft Point; B.P.—Bronze Point; C.L.—Core-Lokt, F.J.—Full Jacket. Add postage for bullets (unless ordered express with powder primers, etc.), 15¢ per 100 in nearby states, 30¢ to West Coast.—We refund any excess.

EMPTY PRIMED SHELLS IN STOCK (per 100)

45/70	6.35	.220 Swift	6.90
38 spl.	2.95	.257 Roberts	7.00
30 Luger	4.20	250/3000	6.95
.357 Mag.	3.20	.270 Win.	7.00
9mm Luger	4.25	30/40 Krag	7.00
22 Hornet	4.25	30/06	7.05
219 Zipper	6.35	300 Sav.	6.95
		300 H & H	9.60

• AMMUNITION & PRIMERS

10% discount on orders of 5 cartons (22s) or 5 boxes (c.f.) 32s, 38s & 45s. Primers $6.30 per M—10% discount on 5M (ass't)

Clubs can purchase ammunition in case lots at wholesale.

Send for FREE CATALOG . . SURE WE TRADE!

Badger SHOOTERS SUPPLY

OWEN, WISCONSIN

Fajen's New

DeLUXE Sporter STOCK

Hand Fitted and Built on your Rifle. For Enfields, Springfields, Mausers and Krags. DeLUXE Thruout. Completely Finished and Checkered. Satisfaction Guaranteed **$50.00**

"Standard" Sporter Stock Built on your Rifle, only... **$40.00**

Write today for Free Fajen Stock Circular

REINHART FAJEN Box 304, RAYTOWN, MO.

SUPERIOR HOLSTERS AND BELTS

S. D. MYRES SADDLE CO.

EL PASO, TEXAS

Write for Catalog

STYLE A

JOHN D ROBINSON
612 ELM STREET
ROCHESTER NY

1¾" x 1¾" 12.95 ea.

Personalize YOUR GUNS!

Nickel-silver name shields screw to gun stock. Style "A", name & address, 3 lines, hand-tooled, $2.95 ea. postpaid. "B", 1"x15/16", name only, $1.85 ea. Screws incl'd. Check or M.O. No C.O.D. Franklin Forge Craftsmen, Wallingford, Pa.

FOR THE SHOOTER BY A SHOOTER

FREELAND ALL-ANGLE OFFSET TRIPOD → $11.50

FREELAND DELUXE OFFSET TRIPOD $9.50

FREELAND CUSTOM "400" BIPOD $16.50

—Tripods in olive or black, be sure to mention scope so proper PATENT CLAMPING RING will be on the scope stand

FREELAND CUSTOM RIFLE STOCKS, made to YOUR measure, up from $55.00
UNERTL TUBE SIGHT, with mount 24.00
Unertl rifle scopes .....$58, $78, $90 and 125.00
Lyman Alaskan .....$60.00 Dust Caps 1.50
SATURN SCOPE 25.00
ARGUS SUPER SPOTTING SCOPE 74.50
GRIFFIN AND HOWE MOUNTS 25.00
MOSSBERG SPOTSHOT SCOPE 22.30
MOSSBERG Rifle Scope 5M4, 4M4, 8M4 ..... 9.95
WEAVER G4..... $9.75; J2.5, $22.50; K4..45.00
LYMAN JR. RELOADER 22.00

FREELAND VERY FINE RIFLE GLOVE $3.75 ←

FREELAND RECOIL SPRING FOR RIFLE SCOPE $3.00

FREELAND VERY FINE HOLSTER ZIPPER RUG $5.00

B.S.A. ACTIONS $50.00
B & L RAYBAN GLASSES.....$15.00 16.50
B & L CARWINDOW ATTACHMENT 2.25
SHEEPWOOL HOLSTERS, mention gun 2.00
EADS SPRINGFIELD SAFETY 5.00
FREELAND ADJUSTABLE BARREL BAND 1" Diam. for 52 and 37 ..... 5.00

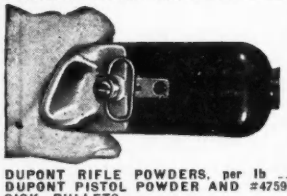
FREELAND SUPREME CUFF WITH TONG TYPE SLING $3.75 →

FREELAND CEDARWOOD CARTRIDGE BLOCKS $1.50—$2.00

FREELAND SLING KEEPER $1.00

Rifle rest fork $.60

FREELAND ZIPPER CASES FOR RIFLE & Spotting Scope ..... $ 3.00
Freeland Zipper Cases for right angle Unerti 3.50
Freeland Hard Leather Case for Argus Scope 10.00
Freeland Lens Adapter, takes 1⅛" Lens..... 9.50
Pointer Thumb Rest Pistol Grips $5, $5.50, $6. 6.50
FRANZITE PISTOL GRIPS $5.00 6.00



FREELAND FORE END STOPS, 52s, 37, Universal $3.50

FREELAND FORE END STOPS, 513, 52T, 75, 52M $2.00 (left hand models $1 additional)

DUPONT RIFLE POWDERS, per lb ..... $ 1.85
DUPONT PISTOL POWDER AND #4759, ½#.. 1.50
SISK BULLETS $2.00, 2.50
SLING TENSION EQUALIZERS 2.00
37AR. REM. .22 rifle 113.60
75 Win Target rifle..... 53.50
513T Target rifle 53.50
52S Win. Mk Stock rifle 79.50
52IT.L. Rem. .22 rifle 36.95
52 Win Mk stock 89.15
Mod. 70 target 30-06, 270 ..... 168.45
Mod. 70 Bull Gun, 30-06, 300 Mag..... 195.00
25 Cal Auto. Thalson 37.50
32 Cal Auto. Thalson 55.50
10X Imp. Rifle coat 15.00
10X Imp. Skeet coat 11.00
Ear stopples, per pr. 50c & 1.00
Kolpin Rifle case 12.65
"GUN DIGEST" 1.25
"MODERN GUNSMITH," Howe 15.00
"ADVANCED GUNSMITHING," Vickers 4.00
".22 Cal. VARMINT RIFLES" Landis 5.00
"MODERN SHOTGUN LOADS" Askin 4.00

All Available Target Rifles. Hand Guns Come in Slowly but Surely. Complete Outfitter to the Beginner or Master Rifleman. Prices subject to change without Notice.

TARGETS—RELOADING NEEDS—BOOKS—AMMUNITION. CLUBS—GET AMMO PRICES!

FREELAND'S SCOPE STANDS

AL FREELAND

3737 14th Ave. Rock Island, Illinois

(Manufacturing the finest for the rifle lover)

"the smartest guy in town"

The most complete and up-to-date book on hand-loading, with a new 80-page illustrated supplement covering latest developments in loading tools and technique. Describes characteristics of 58 American smokeless powders, plus 6,200 suggested loads for rifle, revolver and pistol cartridges. We'd need a full page to even describe the many tables, charts and reloading hints contained in this 546 page volume. One of our best sellers at only $8.00

NATIONAL RIFLE ASSOCIATION

SCOTT CIRCLE, WASHINGTON 6, D. C.

Easy-to-Carry, Double-Size

PRONE SHOOTING PAD

AND COMBINATION BEACH PAD

Easy to Carry!

DESIGNED BY A SHOOTER

Yes, this Pad was designed to the exact specifications of a champion shooter! That is why it is full DOUBLE-WIDTH — and six feet, three-inches long.

Can be used folded double or full-width. Perfect for prone shooting. Also ideal for family use, sun bathing and picnics.

Top quality, waterproof 10-oz. Duck — 100% hair filling. Rolls up compactly with handle attached. Choice of colors—green, blue, maroon, yellow.

ONLY $14.50 SHIPPED PREPAID

Regular $20 value. Shipped anywhere in U. S. prepaid for only $14.50. Satisfaction or money back. Specify color.

GOOD HOME STORES, Inc.

18 West Chelten Ave., Dept. 101-3, Philadelphia 44, Pa.

them. Those 15 rounds were crowded into one rainy morning by an ill-advised schedule.

George says that the Jap 6.5 mm. Arisaka was too long. ". . . the only worth-while purpose served by making the barrels that long was a great reduction of muzzle blast and flash—which furnished the American uninformed (including one high-ranking general) with reasons for stating erroneously that the Japs had developed an absolutely smokeless powder. . . ."

The 7.7 mm. Jap M1939 rifle, "as a gun, compared very favorably with the better military rifles of Europe, being better than some models. It was, of course, a very crude item compared with our Springfield. When compared to our Garand, it was utterly obsolete. . . ."

It is interesting to find that George, an old Camp Perry big-bore shooter, does not even rate the M1903 Springfield in the same class as the Garand M1, which he says was "probably the very best rifle in the war, and the best military hand weapon ever placed on a battlefield in appreciable numbers. It had the very desirable effect of doubling the strength of our front line platoons. The gun was amply accurate, powerful, and it was quite reliable. I doubt if any of the far-sighted men who recommended years ago that we adopt a semiautomatic rifle really knew what an understatement they had made when they said that such an adoption would be 'advantageous'."

However, it has a few faults, such as the magazine system. "An 8-round clip is fine—it's nice to be able to fire that many without reloading. But is not so good to *have* to fire that many without reloading—to have to empty the gun before it can be refilled, which is almost a necessity with the M1."

"The gun has too much wood, metal, and leather or canvas on it. It is too heavy, and too thick around the balance."

Most of what he heard about the Springfield was hearsay, "and little is complimentary. Most everyone who used it in combat would rather have had a Garand. Marines begged, borrowed, and 'promoted' from us every M1 they could lay their hands on."

"The old Springfield is simply obsolete, that is all. I am glad to have seen the M1 used in battle, and to have used it myself. And when the groans of disgust echo along the firing line at the next National Matches, I'll try to make sure that mine are for the usual reasons; a deuce or a trey in the wind, and not because I am fed up with shooting a damn lead squirter instead of the precise old Springfield National Match!"

The Carbine "turned out to be an ace weapon of this war, as far as I am concerned. It was light and handy, powerful and reasonably accurate."

As to the caliber of ammunition, George says, "The greater diameter of our bullets gave many advantages over the Japanese .256. Our tracers were more reliable, and our incendiaries superior in performance to anything we had shot at us."

George ends his excellent book with this parting shot—"We have heard it said that God is on the side of the heaviest battalions. In my part of this last war, God displayed partiality, too—and He always favored the side armed with semiautomatic rifles."—J. S. H.

(Available from the publishers, Small Arms Technical Publishing Co., Plantersville, South Carolina. Price, $4.00.)

THE ARMS CHEST

GENERAL REQUIREMENTS APPLICABLE TO CLASSIFIED ADVERTISING

1. Rate: 25 cents per word including name and address—minimum charge $3.00. All advertisements must be accompanied by remittance, made payable to "National Rifle Association"—1600 Rhode Island Ave., Washington 6, D. C.

2. Closing Date: All advertisements must be received by not later than the 1st of the month preceding date of issue. (Example: the 1st of March for the April issue. Ads *received* after the 1st of March *and not later than the 1st of April* will be inserted in the May issue.)

3. Who May Advertise: Any individual or firm whose advertisements and methods of doing business meet our requirements may advertise their goods or services in the ARMS CHEST.

4. All Orders Subject to These Conditions: We reserve the right to edit all copy to conform with our standards and to reject or discontinue any advertisement which we consider undesirable.

5. Transactions Based on Good Faith: ARMS CHEST transactions are based on good faith and mutual satisfaction. Deliberate misrepresentation, disregard of usual business ethics or the attempt to circumvent these general requirements, when brought to our attention, will result in refusal of further advertising and might result in disbarment from the NRA, in the case of members.

6. Blind Ads Not Acceptable: Blind ads, with box numbers *only*, will not be accepted. Give your COMPLETE name and address, to insure prompt delivery of all mail or telegraph replies.

7. How to Count Numerals, Etc.: Groups of figures are counted as one word (example: .30-30, 250-3000, $150.00, $1.50). Abbreviations consisting of initials or single characters likewise are counted as one word (example: W. H. Smith; H. B., meaning heavy barrel; HP., meaning high-power). Hyphenated words are counted as two words (example: 20-gauge, pearl-handled, no-slip).

8. Responsibility for Illegible Copy: Type or print ads plainly, for we can not be responsible for errors due to illegible writing.

9. Firearms for Sale or Trade Must Be Properly Described: The *condition* of every gun (including essential parts) advertised for sale or trade, *must* be specified according to *NRA standards*, as follows: PERFECT—meaning factory condition; EXCELLENT—meaning new condition, implying negligible amount of use; VERY GOOD—meaning practically new condition; implying little use, with no appreciable bore wear and only minor surface scratches or wear; GOOD—meaning moderate use with some finish worn off, only moderate bore wear, with no pits and nothing worse than a little roughness in the bore; FAIR—meaning no parts missing necessary to use of gun, reasonable wear inside and out, nothing worse than minor pits in steel or stock, gun sufficiently accurate for hunting. POOR—meaning marred appearance and pitted or badly worn bore.

10. Requesting Privilege of Examinations: We suggest that purchasers desirous of examining merchandise before acceptance request shipment by express C. O. D., with examination privilege. This procedure permits the purchaser to inspect the merchandise *in local express office* and authorizes the express company to return unsatisfactory merchandise at shipper's expense.

11. "Outlawed" Firearms Cannot Be Sold: Federal statutes forbid the sale or trade of all machine or submachine guns; sawed-off rifles and shotguns with barrels of less than 18" (the exact barrel length must be specified for all Mannlicher-Schoenauers) and Mauser and Luger auto pistols *with holster stocks*—except by a Federally licensed dealer who has paid the special tax required by Section 3260, Internal Revenue Code.

In addition, the NRA has adopted a policy of not accepting advertisements covering small semi-automatic pocket pistols which have no practical value as target, police or military weapons.

FOR SALE

LARGE COLLECTION OF AMERICAN AND European Antique arms. Send 25 cents in coin for our 15th edition catalog featuring the Brown collection of Kentucky rifles. We buy whole collections or single pieces. Fair prices paid. Kimball Arms Company, Woburn, Mass. tf.

INVENTORS: HUNDREDS OF MANUFACturers have requested our assistance in locating marketable new products. Complete information, free. Institute of American Inventors, Dept. 131, 1926 Eye St., N.W., Washington 6, D. C. tf.

REVOLVERS, MINERALS, STAMPS, COINS, Glass, Indian relics, catalog 5¢. Cowboy Lemley, Las Cruces, New Mexico. tf.

CASWELL TARGET CARRIERS GIVE THE shooter every possible point because they hold the target steady and require no exertion to operate. Fully equipped with speedy ball-bearing pulley wheels and target holders for every type of indoor paper rifle or pistol targets. Priced from $22.80 to $31.20. Write for price list and descriptive circulars. Caswell Target Carriers, Anoka, Minnesota. tf.

ANTIQUE FIREARMS, LONG, SHORT AND in-between. Have large selection. Write wants or visit R. E. Ernst, 804 Madison St., Port Clinton, Ohio. 3-48.

MUZZLELOADING KENTUCKIES, GUNS powder flasks; parts price list 10¢. Ollie Miller, 417 Kingston, Lemay, Missouri. 6-48.

LARGE STOCK OF NEW, USED PARTS for Winchester, Marlin, Colt's S&W, Reising pistol and others. Send 10¢ for large price list. Pioneer Valley Gun Shop, 19 Beacon Avenue, Holyoke, Mass. % Robert Bowe, Life Member. 3-48.

SERVICEABLE SA COLT PARTS: HAMmer $2.75; trigger $1.25; gate $1.50; ejector head $1.50; trigger guard $2.75; screws 30¢ each. 20 shot magazine for 30-06 Springfield $6.25. C&B revolver repair parts, moulds, accessories. B. K. Wingate, Box 481, Reading, Penna. 4-48.

A SERIES OF BULLETINS THRUOUT 1948 is offered to collectors and shooters of antique firearms. Price 50¢ for the series. House of Guns, 34 Alpine Place, Kearny, N. J. 5-48.

MUZZLE GUN SUPPLIES: NIPPLES FOR shotguns, rifles, revolvers and muskets, 25¢ each or 5 for $1.00—all in tool steel. Rifle and shotgun usually take the .250 base with 28 threads; revolvers .225 base—32 threads; muskets .317 base, 24 threads. Also carry .260-28 and .285-28—same price. Flints for pistols or rifles, $1.25 per dozen. Percussion caps—#10 for pistol and #11 for rifle and shotguns—$3.40 per 1000; musket caps $4.40 per 1000—may come by express. Fresh Dupont Black Powder—6¼ pound can $4.00, 25 pound can $12.50, FOB. Freight only. Hickory ramrods, .38, .40 and .42 $1.00 each; large sizes $1.25 each. Nipple wrenches for rifle, pistol and musket (specify which) 75¢ each. Moulds, round balls, .285 to .50—$6.00 each; above .50—$6.50 each—see Lyman list for sizes; top quality and very accurate. Drum, nipple and clean-out screw combination—send old drum for checking measurements—75¢. Powder measure with graduations for black powder, zero to 100 grains, plastic, $3.25. Lyman 17-A front sights $3.00; early Sharps front with base .460 inches wide and German-silver blade 75¢—nice stock. Redfield M70 peep rear for Mauser conversions $8.50. Buhmiller .22 barrels, not turned outside or threaded $17.50. Curly Maple stocks 5 feet by 2¼ inches, seasoned one year, $9.00. Walnut planks 7 feet by 8 inches by 2½ inches $15.00 FOB—cured about 13 months. A few good squirrel and match rifles—tell us your wants. Farris & Son, Portsmouth, Ohio. tf.

SHOOTERS—ON THE RANGE, KEEP YOUR targets neat and tidy; patch the holes with Kurve-Kut target pasters; packed 500 pasters to the roll in handy dispenser-type cardboard box—Black, White or Buff; 30 cents per box at your dealers or send your order to Razorback Target Pasters, Route #2, Fayetteville, Arkansas. tf.

MY NEW 1948 CATALOG LISTING HUNdreds of antique arms, edged weapons, cartridges, accessories, books, and collectors items is now available. Send 25¢ to H. A. Brand, 704G Ingalls Bldg., Cincinnati 2, Ohio. 8-48.

ELECTRIC PENCIL: WRITES, ENGRAVES all metals. $1.00 postpaid. Beyer Mfg., 229-Z Dixon Blvd., Uniontown, Penna. 6-48.

SHOOTING M.L.'S, TARGET, KENTUCKIES, shotguns, militaries, collectors' items, reasonable. Price list, stamp. Hamilton, 1354 Norwood, Chicago 40, Illinois. 3-48

MOUNTED STEER HORNS FOR SALE. Seven feet spread. Free photo, $100.00 per pair. D. L. Bertillion, Mineola, Texas. 4-48.

.45-70-500 SMOKELESS CARTRIDGES. $1.74 per box, $8.00 per 100. Headless shell extractor for the Springfield rifle & carbine, 75¢. Rubber slipon recoil pads, for rifle or shotgun, 90¢. Dept. R, Bolin's Gun Shop, 9 Grand St., South Amboy, N. J. tf.

AMMUNITION—75 SIZES IN STOCK. DIME for list. Central Sports, Delphos, Ohio. 4-48.

PREWAR BLUING — PLATING. BLUING salts $2.95. Genuine pearl ivory grips. Gun Reblu, Fletcher 3, No. Car. tf.

Here is your "MAIL-ORDER" Department Store

Within these classified columns you will find listings of most everything you need.

Not only are there wide selections of shooting equipment—to fit your requirements and purse—but you'll also find attractive offerings of numerous other items or services, many for personal or home use.

You can shop thru these pages the easy mail-order way, with complete confidence, for *all* advertising in the Rifleman is guaranteed.

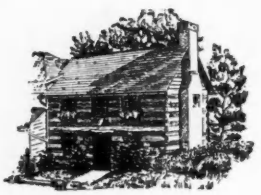
☆ ☆ ☆

Final closing date for the May 1948 issue is April 1st

RATE NOW, 25¢ PER WORD:

The "Arms Chest" classified advertising rate is now 25¢ per word. This new rate became absolutely necessary because of much higher publication costs, and the continually expanding circulation of the RIFLEMAN. Print order for this issue (March) is well in excess of 300,000!

Arms Across America



S & W pistol M & P, 38 Spec. 2" 3" 4" 5" 6"	$56.50
HD Hi-Standard 22 cal. 4½ 63-4"	51.00
75 Win Target 22 cal	54.50
Mauser 98 bolts stripped	5.00
Spr. trigger guards milled stripped	3.00
Enf tr guard stripped	1.50
Unertl scopes, small game, coated	38.50
1" Unertl, 6x, 8x, 10x, coated	76.50
1¼" 8x, 10x, 12x, coated	56.50
1½" 8x, 10x, 12x, 14x, coated	89.00
2x, all sizes	125.00
Varmint, 6x, 8x, 10x	73.50
Fecker, 1¼", 8x, 10x, 12x	70.00
Fecker 1½", 5-8", all sizes	96.00
Lyman Alaskan	60.00
Argus Super-Spot scope, 20x	74.50
Dockendorff Goldwire sights	5.75
Redfield Olympic front sights	8.50
Redfield 70, most numbers on hand	8.50
Redfield mts., all sizes	$10.75 to 14.75
Echo mounts, all sizes	17.50
Pachmayr mounts, all sizes	20.00
Weaver G-4 scopes	9.75
Weaver J.2.5 scopes	22.50
Weaver K.2.5 scopes	37.50
Weaver K.4 scopes	45.00
Colt 45 C.A. grips imitation walnut pr.	1.50
Colt 45 mags new	1.50
Used ea.	1.00
Colt 45 C.A. barrels new	4.00
S&W barrels 45 cal new	6.00
30 cal 150 gr M. C. bullets 100	2.00
30 cal 172 gr. B-T 100	3.25
Spr. front sights complete	1.00
45-90 bullets S.P. 300 gr. 100	6.00
Sheep-Skin cases, scope size 44-48" long, finest grade made	12.00
45 auto ammo, per 100	5.00
30.06 M. C. 150 gr., per 100	6.00
98 Mauser extractors, new	4.00
98 Mauser bolts, tripped, v. g.	5.00
98 Mauser issue barrels, 24", v. g.	5.00
Mauser Actions 98 M, New, Bolt altered, Low Scope	45.00
Dealers Lots, 3 or more, Special Price.	

Note: We have practically all modern ammo. factory loads primed cases, bullets

Mauser, Krag, Spr., Enf., 45 C.A. parts

Many items available not listed, particularly bullets and ammunition

LIST FREE.

Flaig's

"Serving Only Sportsmen"

MILLVALE, PENNSYLVANIA

WAR SURPLUS BARGAINS
Government's 7X 50 Binoculars

Assemble Them Yourself! Complete Optics! Complete Metal Parts! Save More Than ½ Regular Cost!

METAL PARTS—Set includes all Metal parts — completely finished—for assembly of 7X 50 Binoculars. No machining required. Bodies have been factory hinged and covered. A sturdy Binocular Carrying Case is optional with each set of Metal Parts.
Stock #842-L.....$39.40 Postpaid, plus $4.80 for Case.....**Total $44.20**

OPTICS—Set includes all Lenses and Prisms you need for assembling 7X 50 Binoculars. These are in excellent condition—perfect or near-perfect—and have new low reflection coating.
Stock #5102-L.....$25.00 Postpaid

NOTICE! If you buy both Binocular Optics and Binocular Metal Parts, add 20% Federal Excise Tax to above prices.

ARMY'S 6 X 30 BINOCULARS

COMPLETE OPTICS & METAL PARTS—Model M-13A1, 6 X 30 Binoculars (Waterproof Model). Everything you need—ready for assembly. When finished will look like a regular factory job costing $102 to $120. The Optics are new, in perfect or near-perfect condition. Have new low reflection coating. Metal Parts are new and perfect, all completely finished. No machining required. Bodies factory hinged and covered. Complete assembly instructions included.
Stock #830-L.....$40.00 Postpaid
plus $8.00 tax—Total—$48.00

SENSATIONAL BARGAIN
BUBBLE SEXTANT

These Army Air Forces Bubble Sextants cost the Govt. about $125.00 each. A real bargain at our price of $12.50! Included with Bubble Sextant shipment is wooden Carrying Case, 5 spare waxed paper discs, flashlight with rheostat for night use (uses ordinary flashlight cells—not furnished) aux. 2-power Galilean Telescope, Allen wrench, 1 spare marking point. Wartime used, **BUT COMPLETELY REPAIRED, COLLIMATED AND PUT IN GOOD WORKING ORDER.** Light bulb has been tested—Bubble is in working condition. Because of wartime use, we make this guarantee: If not satisfied that Sextant is exactly as represented, return within 10 days and money will be refunded. Full directions for use accompany each shipment.
Stock #924-L.....$12.50 Postpaid
Same Sextant as above but **BRAND NEW** and with Automatic Electric Averaging Device and Illuminated Averaging Disc for nighttime use. Govt. cost $217. Though brand new we have rechecked Bubble and Collimation and GUARANTEE perfect working order.
Stock #933-L.....22.50 Postpaid

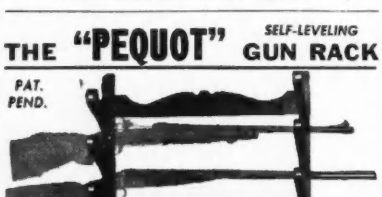
We Have Literally Millions of WAR SURPLUS LENSES AND PRISMS FOR SALE AT BARGAIN PRICES. Write for Catalog "L"—SENT FREE!

Order by Stock No. *Satisfaction Guaranteed.*

EDMUND SALVAGE CO.
P. O. AUDUBON: NEW JERSEY

THE "PEQUOT" *SELF-LEVELING* GUN RACK

PAT. PEND.



SELF-LEVELING—No matter what type of gun, it drops into natural horizontal position in this rack. The "PEQUOT" adds attractiveness to den, living room, hall or foyer. Holds up to 4 guns. Just the thing for every gun owner, $7.95 prepaid, check, money order or C.O.D. 6 gun size—$10.95. Made of selected finely grained cherry, hand rubbed walnut finish. Both husband and wife will agree the PEQUOT adds grace and distinction to any room.

THE NIMROD COMPANY
(A Division of George Marnhout Co.)
Dept. R-38, 1701 Arch St. Philadelphia 3, Pa.

REBARRELING & MILITARY CONVERSIONS

MAUSER—Enfield & Springfield—$45.00. Including complete Rebluing. Mag. alteration and drill for 70 Redfield sight.
CALIBERS 22/250, 219 imp, 220 Swift, 220 Rocket, 219 Wasp, 250/3000, 257 Robt, 257 imp, 270 Win, 300 Sav. 30/06, 8 x 63.
Bolt altered for scope, including Buehler Safety, $12.00, "Dahl" Ramps, any blade, $8.00 inst. Sporter Stock for Mauser or Enfield, $35.00.
All barrels turned to your dimensions from Buhmiller Chrom Moly Blanks.
Complete line of Scopes, Mounts and Redfield, 70 and 102 sights. Send for list on conversions.
GUNSMITH SERVICE—IN ALL STAGES
***Armsco*—George Pearsall—Gunsmith**
514 N. State St., Chicago 10, Illinois

SPECIAL GUNSMITH SCREW DRIVERS. Set of 9 spring-steel drivers ⅛"x2" to 5/16"x10" blades. Guaranteed not to chip, gun grip handles shipped to any member on approval, $4.50 postpaid. E. C. Grace, Elk Rapids, Michigan. tf.

GUNS & ACCESSORIES—PRICE LIST FOR your wants. Stamp please. J. A. Sawyer & Son, Kittery Point, Maine. 4-48.

SPRINGFIELD 45-70 S.S. RIFLE PARTS New 32" barrel $7.50, lock $4.50 complete. Mainspring $1.75, trigger guard $1.25, butt plate $1.00, breech housing $1.25, breech block with ejector $1.75. For additional parts, send addressed envelope for latest list. James Serven, Santa Ana, Calif.

AMERICAN, GERMAN, JAPANESE AMMUnition. Stamp for price list. George Bjornstad, 1626 Fargo Avenue, Chicago 26, Illinois. 4-48.

PRIMERS, WESTERN #3, IMPROVED, NONcorrosive, $2.25 per M. Case of 5000 for $9.50. Demrick Sales Company, 1424 Grant Avenue, San Francisco 11, Calif. tf.

USE THE NEW GAS PROOF GUN WAD for mild recoil, close even pattern, unusually long range, $4.00 per M. Packed in 1000 lots, 500-½", 250-⅛C, 250 thin C, send remittance. E. G. Snyder, Rt. #2, Reading, Penna. tf.

NEW 50 FOOT SCOPE GALLERY TARGET. Order your supply for the coming season. Immediate delivery. Write for price list. John A. Walters, R. D. #1, Fayette City, Penna. Life Member. 3-48.

RELOADING LUBRICANTS: 1PCO COLLOIdal graphite ribbon wads $1.00 box; 1pco bullet lubricant $1.00 box. Special discount to dealers. Industrial Products Co., W. W. Perkins, Prop, Box 14, Wakefield, Mass. tf.

LARGEST STOCK OF MODERN NEW AND used guns in New England. Buy, sell or trade. List dime. The Green Store, No. Haverhill, New Hampshire. 3-48.

QUICK-WAY BULLET PULLER FOR PAcific or Universal tools now made in two sizes. .22 to .27 caliber or .27 to .35 caliber either size complete $4.00, both sizes $6.00. Al Streich, 535 East 12th, Casper, Wyoming. 3-48.

PARKER AHE, 30 F&F, S.T., MILLER, VENtilated rib, Beavertail forend; about 1-7/16x1⅝x14¼. Excellent or better, with Circassian beautiful stock, pad and gold pistol grip cap, $850.00. Ithaca #7E 16, S.T., M&F drop 1⅜x2⅝x14 pad. Excellent or better $500.00. Frank Pughese, 2829 South Broad St., Trenton 10, New Jersey. tf.

REMINGTON MODEL 29T PUMP GUN, 32" barrel ventilated rib Beavertail forearm, very good, price $140.00. B. H. Smith, Severn, Maryland. 3-48.

FRENCH COLMONT 10x40 BINOCULARS. Very good, case $75.00. R. E. Dodd, Rock Falls, Illinois.

52 WINCHESTER STANDARD MICROMeter peep sight and Lyman 10 Targetspot $140.00. Scope separate $65.00. Colt Woodsman 6" $60.00. Remington 30-06 Army stock cutdown $40.00. All above excellent. Charles Kuhn's, 1111 Garfield Avenue, Niagara Falls, N. Y.

WALTHER OLYMPIA—EXCELLENT $125.00. Belgique, .38, excellent, $75.00. Luger, fair, $25.00. W. E. Marshall, 29A Elm St., Gloucester, Mass.

NEW .270 CUSTOM SPORTER, BUHMILler 12" twist barrel. Mauser action, Buehler safety, Zeiss 4 power scope. Walnut stock, cheekpiece recoil pad, swivels, $210.00. Weaver K2.5 scope coated, post, crosshair, excellent, $31.00. Money order, please. B. Ira Judd, 115 E. 7th St. Tempe, Arizona.

O&U BROWNING 12 S.S. TRIGGER 26" BARrels skeet solid ribbed very good to excellent $200.00. Bob Noffsinger, Box 516, Greeley, Colorado.

10 GA. ITHACA DOUBLE, PAD, VERY good, shells if desired, $85.00, also 12 ga. model 11 Remington automatic, Poly Choke, pad, good $80.00. Johnny Beautrow, 903 Summitview, Yakima, Washington.

MAUSER CUSTOM 250-3000 — BISHOP cheekpiece, Pachmayr pad, Jaeger chrome 24—Weaver J2.5-Redfield Jr. and safety, checkered, low bolt, inch swivels, excellent, MO $150.00. H. E. Dager, General Delivery, Las Vegas, Nevada.

"Your BLU-BLAK does the job better than any other I have found."
SIZER'S GUN SHOP
See page 70 Takoma, Wash.
(Note: Based on 46 years gunsmithing experience).

MY SPECIALTY IS AMMUNITION; SELLing, buying and trading it, with the shooter, dealer and collector. Everything in original loading. Carry a large stock of up-to-minute shooting sizes, and many types not being made, all in box lots. New 1948 shooter's list sent free for 3¢ stamp. 68 page Collectors catalog, with new 1948 supplement, mailed for 35¢. This catalog contains many illustrations, packs of information and lists about 1500 types, many of which can be used in the oldtime firearms. To prospective cartridge collectors; ask for article "How to Collect Cartridges for Pleasure and Profit," no charge, but please enclose stamp. Here's one for the books, a high grade bowie type hunting knife, with 6" tough steel blade and steel trimmings, Parkerized finish, with 4½" no-slip leather grip. The top grade leather sheath is double stitched and riveted for additional strength and is double looped for belt attachment. Brand new, U. S. Government specifications, price $1.10 each or 5 for $5.00. Life Member. Philip Jay Medicus, 18 Fletcher St., New York 7, N. Y.

WINCHESTER 94 .25-35 FAIR $30.00; 73 .38-40 good $25.00; 92 .32-20 good $40.00; 97 12 ga. special stock, factory overhauled, 2 complete assemblies 32 full, 25 cylinder, about v.g. $90.00; 52 HB with sights, tiny stock check, new, $80.00. Krag issue, shortened forend, about v.g. $40.00. Springfields 45-70 reblue sporter modern sights $25.00; 30-06 sporter, sporter stock, 29S, ammo, excellent to v.g. $94.00. Mauser 8mm. 1915 sporter 4-step barrel, Lyman peep, 200 rounds ammo, a honey, v.g. to excellent $120.00. Marlin 45-70 top eject ST, heavy, a beauty, excellent $60.00. Radom 9mm. 50 rounds, excellent $45.00. Davis-Hunter 20 ga. pistol, holster, good plus, license, $25.00. Colts: Police Positive .32, $5.00 holster, v.g. $40.00; Official Police .38 Special, new, $60.00; Barrels only: Remington 31-12 IC, excellent $25.00; Winchester 12-12 full, rib, complete magazine assy, excellent $45.00; Springfield issue 30-06 model .22 with sights, adapters, good plus, $12.50. Ammunition: .32 RF Long $1.95; 30-06 late 7½¢. Trade for 10 Magnum, O&U's, .357. Gunsmith Service. Next catalog & list service gen'l sporting goods, 25¢. Hunter House, Palatka, Florida.

ZIRCONS, LOOSE. GENUINE SIAM IMports. Pure white. Special: 3 genuine Zircons, from ½ kt. to 1½ kts. 3 gleaming gems complete $6.00 tax included. We can supply Zircons in all sizes and mountings of all types. Send order or write for details today. B. Lowe, Holland Bldg., St. Louis, Missouri.

9MM. LUGER AND P.38 CARTRIDGES—Fresh stock factory made. $8.00 a hundred, no limit, no C.O.D.'s. Siegels, 76 East Second South St., Salt Lake City 1, Utah.

WINCHESTER 30-30 CARBINES—NEW UNbroken factory carton $60.50. S&W M&P 4, 5, 6" barrels, $56.50. 9mm. ammo. $4.00 box. Winchester 351 auto. mod. 07 factory new grease $122.40. Money orders only. Sportsman's Center, 217 South Fourth St., Springfield, Illinois.

NEW GUNS—2 SPRINGFIELD #311—16 GA. 2-12 ga. each $39.00. 2 Remington 510A $10.00. 2-511A $19.00. 2-220 Savage $19.50 each. 3-22-410 $25.00 each. 94T-410 $15.00 each. #39 bolt action 410 $22.00. 745 Lightweight Savage $85.00 each. New Mercury 2 camera $61.00. Cornhill Sporting Goods, 307 Arthur St., Utica 3, N. Y.

NEW PRIMED 10 GA. 2-9/16" CASES 1¢ each in lots of 2000 or more. Bogert's Gun Store, Sandusky, Ohio. 4-48.

1000 ANTIQUE AND MODERN GUNS IN stock. Send stamps for lists. Gunroom, Homer, N. Y. 3-48.

SHOOT WITH A MUZZLE CAP ON YOUR rifle, shotgun, pistol and play safe. Positively keeps bore of firearm free of dirt, moisture, snow, dangerous obstructions under all firing conditions, range or afield. Simple to use. No effect accuracy, breech pressure. Made of Neoprene. This sensational gadget, endorsed everywhere, makes ideal scope cover also. Shooters! Get your season's supply by return mail. 35¢ dozen, or 3 dozen for $1.00 postpaid. State whether for rifle, pistol, shotgun, scope. Woodford Mfg. Co., Lyndhurst, Ohio. tf.

MY DE LUXE CARTRIDGE LIST #12 FOR Collectors now ready contains some illustrations, and many desirable items I have not heretofore listed. Send 50¢ in coin. Carl Metzger, 2305 Canton Street, Dallas 1, Texas. 3-48.

.22 MASTERPIECE, .38 SUPER COLTS. MILitary & Police, .38 Hi-Standard H.D. All new in stock. Price list. Farmers & Traders Exchange, Chittenango, New York. 3-48.

PATENTS Without obligation, write for information on steps to take to secure a Patent.
Registered Patent Attorney
JOHN N. RANDOLPH 212 Columbian Bldg., Washington 1, D. C.

BOB BROWNELL'S
GUNSMITH'S SPECIALS

Shop assortments of high quality round tool steel. Full hardening and tempering instructions with each kit. This is the true gunsmith's steel: for pins, parts, punches, chisels, special firing pins, etc. All round tool and drill steel is in 12" lengths.

Shop assortment No. 2, 17-64" to 3-8" by 64ths... 3.10
Shop assortment No. 3, 25-64" to 1-2" by 64ths... 5.73
Gunsmith deal—Kits No. 1; No. 2; No. 3..... 10.00

This is the assortment given by Baker on page 55 of Modern Gunsmithing. Available in shop assortment kits consisting of all sizes shown or in cut 12" pieces. Write for postal card listing sizes and prices. Available for immediate delivery after March 10th.

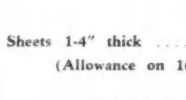
STRAIGHTENED and cut to 12" lengths. All ready to be made into helical, coil or special springs. Thirteen sizes, ranging from .016" to .075" and from five to eight pieces each size, per kit $2.20

An absolute essential. Available in red, green, black, opaque white, clear. Each sheet measures 6" x 12"—enough for seven butte spacers or 30 grip caps.

Sheets 1-16" thick $0.80
Sheets 1-8" thick 1.00
Sheets 1-4" thick 1.50

(Allowance on 10 sheets or more)

FILLESTER HEAD SCREWS



AT LAST! FULL ASSORTMENT fillester head screws in handy Dewitt compartment plastic box. Assortment consists of 12, each, the following sizes: No. 4x40; No. 4x48; No. 4x36; No. 5x40; No. 5x44; No. 6x32; No. 6x40; No. 8x32; No. 8x36; No. 10x24; No. 10x32; No. 12x24; No. 12x 28. Also 24 EACH: No. 6x48; No. 8x40 (the two popular scope mount sizes).

Price, per box kit, complete with transparent box **$3.80**

GUN STOCKS

Made to fit all standard size Mauser, Springfield, Enfield receivers with standard barrels. Seasoned walnut, finished inside and out — checkered at pistol grip and on fore-arm. With or without Monte Carlo cheek piece, right hand only. When ordering be sure and specify whether gun has military barrel or barrel made along lines of Johnson or Ackley Sporter Barrels.

Guaranteed, for only **$32.50**

Gunsmith prices on orders of two, six, or twelve at one time.

SPECIAL TOOLS

The following are NEW items not in our catalogue:

Bench King Vise	$14.95
Tru-Turn Lathe Tool	11.75
Gun-Line Checkering Tools, Super	7.50
Gun-Line, Standard, Advise Lines	4.75
Crowe Rotary Safeties for M.12	2.00
Bore-Lite Bars, Set of Three	1.00
Precision Machinist Levels, 6"	5.80
Precision Machinist Levels 1" Bull's Eye	1.50
Precision Machinist Levels Cross Test	1.50
Precision Machinist Clamps, 2¼", ea	4.00
Shop Set Bracket Clamps, Six Clamps and One Bracket	4.50
New, 1¼" Mil. Rifle Slings, ea.	2.25
Kant-Kant Targets, 100 yd., per 100	1.75
Dockendorf Hood Sight, A735	5.75
New Book of Special Interest: Ness' Practical Dope on the .22	4.00

INLETTING CHISELS

We now have the Hagen line of Inletting Chisels. Immediate Delivery.

DeLuxe Set $12.50
Gunsmith's Assortment, 8 Chisels .. 20.00

(Write for literature, if desired)

We've "Berg" Swedish chisels and gouges on order as well as special Stock Makers saws and knives. Drop us a card if you want us to advise you when available.

TERMS

All orders F.O.B. Montezuma, Iowa
For Parcel Post Include Postage
C.O.D. Orders Accepted from N.R.A. Members

THE GUNSMITH'S MART
BROWNELL INDUSTRIES, INC.
MONTEZUMA, IOWA

CAMERAS

A Complete stock of Kodak, Argus, Zeiss, Revere, Bell & Howell, Graphic-Graflex & other quality cameras on hand for immediate delivery. We unconditionally guarantee satisfaction on all purchases. Write today for a free listing.

Top Quality Cameras Especially Suited to the Sportsman's Needs

Still Cameras

Zeiss Super Ikonta B, F2.8 Tessar lens, coupled rangefinder and case. World's finest rollfilm camera.
Complete **$264.00**

Crown Graphic "23" Ektar f4.5 in flash superm't, rf & flash gun	$251.27
Speed Graphic "23," same above	287.38
Crown Graphic "45" Ektar f4.5 in superm't, rf & flash gun	254.48
Rev. Back Graflex B 2¼ x 3¼" 5" Ektar f4.5 & fpa	157.50
Super D Graflex B 3¼ x 4¼ 6⅜" Kodak f4.5 in auto. diaphragm & fpa.	230.25
Most all Graflex & Graphic accessories in stock.	
Kodak "35" with f4.5 lens in flash shutter	57.72
Kodak "35" with R.F., f3.5 Lens in Flash Kodamatic Shutter	86.58
Kodak Flash Bantam with f4.5 in flash	57.72
Kodak Vigilant with f4.5 in flash Kodamatic, 2¼ x 3¼ size	61.18
Kodak Monitor with f4.5 in flash supermatic shutter, 2¼ x 3¼ size	86.58
Kodak Reflex 2¼ x 2¼ f3.5 lens in flash Kodamatic with case	137.92
Kodak Medalist II with rf, f3.5 in flash supermatic shutter	262.50
Argus 35mm A2 with f4.5 lens and eveready case	37.38
Argus 35mm #21 with f3.5 lens and eveready case & flash gun	66.83
Argus 35mm #C3 with f3.5 lens, rf, flash gun and case	74.71
Argoflex Reflex 2¼ x 2¼ with f4.5 lens and case	69.63
Voigtlander Bessa 120, with f3.5 skopar & flash shutter with case	98.50
Zeiss Ikoflex 2¼ x 2¼, f3.5 Novar in compur shutter & case	126.00
Zeiss Ikonta B with f4.5 Novar in flash shutter & case	81.90
Zeiss Ikonta B with f3.5 Novar in flash shutter & case	90.90

Movie Equipment

16mm Bell & Howell magazine turret camera complete 1" F1.9, 17 mm F2.7 wide angle, 3" F4. telephoto lens and case. A fine camera, price.....**$523.00**

Movie Cameras

Kodak 8 mm Model 25 with 12.5 lens	$ 64.17
Kodak 8 mm Model 90 Magazine with f1.9 lens	145.83
Kodak 16 mm Magazine with f1.9 lens	175.00
Bell & Howell 8 mm Sportster with f2.5 lens	102.61
Bell & Howell 8 mm Magazine Turret, 12½ mm f1.9 & 1½" telephoto	296.82
Revere 8 mm Magazine with f2.8 B & L coated lens	127.50
Revere 8 mm Model 88 with f2.5 Woll. lens	77.00
Revere 8 mm Model 88 with f1.9 focusing lens	104.50
Revere 8 mm turret with f2.8 B & L lens	110.00
Kodascope 8 mm Model 33 500 watt projector	78.00
Kodascope 8 mm Model 90 750 watt projector with case	175.00
Kodascope 16 mm Model sixteen-twenty 750 watt with case	245.00
Bell & Howell 8 mm Filmo Master 400 watt projector & case	187.50
Bell & Howell 16 mm Diplomat 750 watt projector & case	273.00
Bevere Model 85 8 mm 500 watt projector	120.00
Weston Master II Exposure Meter	20.67
Morton wide angle & telephoto supplementary movie lenses	24.00
Kodak Telephoto 38 mm f2.5 for magazine 8	56.58
Kodak 63 mm Telephoto for magazine 8 or 16, f2.7	75.83
Kodak 9mm wide angle for magazine 8	43.75

ABOVE PRICES INCLUDE TAX

Use our CONVENIENT TIME PAYMENT PLAN on purchases of $40 or more . . . one-fourth with order, balance in 5 monthly payments.

PARKER-WHELEN CO., Inc.

Dept. R-3 • 827 14th St., N.W. Wash., D.C.

GUNS

BRAND NEW READY FOR IMMEDIATE DELIVERY

FAMOUS
L. C. SMITH

Double Barrel Shotgun, 12, 16 or 20 gauge, 26", 28", 30" Barrel, double trigger, hand finished $96.10.

IN ORIGINAL CARTONS AND GUARANTEED BY MANUFACTURER HARRINGTON & RICHARDSON

MODEL 165 or 65 "Leather-neck" 22 caliber Barrel Length 23" $57.44
MODEL 265 "Targeteer" Bolt Action Repeater 22 Caliber Barrel Length 22"...$37.61
MODEL 365 "Regular" Bolt Action Single Shot 22 Caliber Barrel Length 22"...$29.65
MODEL 565 "Pal" Bolt Action Single Shot 22 Caliber 22" Barrel $26.85
MODEL 48 "Topper" Single Barrel Shotgun 12-16-20 Gauge Barrel Length 30" $20.85
MODEL 999 "Sportsman" 22 cal pistol $47.95

DEALERS WANTED
MARLIN

39A—25 shot .22 caliber lever action Repeating Rifle $50.45

80-DL—.22 caliber 8 shot bolt action $20.05

81-DL Rifle, 22 caliber, 25 shot tubular magazine repeater $25.55

FISHING EQUIPMENT

HUMPHREYS stationary spool Fishing Reel $22.50
HUMPHREYS Spinning Reel double cap.....$27.50
HAYWOOD ZEPHYR Spinning Rod 2 piece, 7 ft. 4½ oz. Tonkin cane, Phillipson grip $35.00
HAYWOOD ZEPHYR genuine Dupont Nylon Monofilament 4 lb. to 10 lb. test Lines for the above $1.25
HAYWOOD ZEPHYR LEADERS, level and tapered.
HAYWOOD RAINBOW LEADERS—Level, Tapered and Leader Tippets—gen. Spanish Silkworm Gut.
HAYWOOD HAWK SNELLED HOOKS—genuine MUSTAD hooks.
HAYWOOD RAINBOW SNELLED HOOKS—genuine DuPont Nylon Snells.
BACHE BROWN MASTEREELS, 8 oz.....$25.00
MASTERODS, Tonkin cane, 7", 4¾ oz....$27.50 Spinning Lines, 4 lb. and 8 lb. test. Mist Tan and Green in 100 yds or 2/100 yds spools; Spinning Lures from $7.80 per doz.; other Accessories.

KOLPIN GUN CASES

Best Quality Brown Sheepskin—Shearling Lined
No. 27 SHOTGUN CASES.....each $8.49
Lengths: 44-47" 47-50" 50-52"
No. 37 CARBINE-RIFLE .....each $8.49
Lengths: 37-40" 41-44"
No. 97 BOLT ACTION RIFLE .....each $8.95
Lengths: 40-43" 43-46" 46-48"
No. 47 TELESCOPIC RIFLE.....each $10.95
Lengths: 40-43" 43-46" 46-48"
Lanolin properties of best quality shearling lining prevents rusting, and top-grade brown sheepskin specially treated to resist soil and grease, can be cleaned with a damp cloth.

DEALERS WANTED
FREE DESCRIPTIVE BOOKLETS ON REQUEST
SEND CHECK OR MONEY ORDER TO

TARGET ARMS

303 Fifth Ave. New York 16, N. Y.

Speer BULLETS

	IN STOCK
8mm. 170 gr., 7mm. 160 gr., 270 130 gr.	$ 4.25
.223" & .224" 40 & 45 gr., MV.—223" 45 gr. HV	2.80
SISK Bullets—40 gr. Hornet $2.—49 & 55 gr. Express	2.50
PRIMERS—116—115—120—9½ 6½—1½ per M	6.30
PACIFIC & Hollywood Dies 12.50—IDEAL #45 Lub. & Sizer—$12.50—B&M Powder Measure	12.50
PACIFIC Scales 8.95 — POWDER, Du Pont & Hercules lb.	1.75
P.38's & Lugers VG $29.—Exc.	35.00
WEAVER Scopes, G4 $9.75—G6 $12.50—J2.5 $22.50—J4 $27.50 K2.5 $37.50—K4 $45.—K6	48.50
REDFIELD JR. Mts. ¼" $10.75—⅞" $12.75—1"	14.75
WEAVER Mounts "N" $2. "Q" $5.75—"U"	6.25

FREE LIST USED SCOPES, PISTOLS, etc.
Add 50¢ packing charge for powder, primers or cases

AURAND'S 229 E. 3rd St. Lewistown, Pa.
Open 7 a.m. to 9 p.m. Phone 3406

REBLUING • SPECIAL SERVICE

RIFLE or SHOTGUN $3.50 — HAND GUNS $2.50

A special for shooters who like to do their own teardown, sanding, polishing, and reassembly. We use a fine Factory Type bluing solution with hot cleaning, rinsing, and a hot oil finish bath. SEND ONLY THE STEEL PARTS WHICH ARE TO BE BLUED, after you have sanded and polished each part, as you want them for YOUR GUN. We will do both the polishing and bluing for double the above price. SEND ONLY DISASSEMBLED PARTS that are to be blued, for either job, by insured Parcel Post. CAUTION—Tie small parts in a cloth bag.

IDEAL LABORATORY TOOL & SUPPLY CO.
3619 EVANS AVENUE CHEYENNE, WYO.

ILLUSTRATED 156 PAGE CATALOG OF antique firearms and edged weapons 50¢. Robert Abels, R-860 Lexington Ave., New York 21. 4-48.

INVENTORS—PATENT LAWS ENCOURAGE the development of inventions. Our firm is registered to practice before the U. S. Patent Office. Write for further particulars as to patent protection and procedure and "Invention Record" form at once. No obligation. McMorrow, Berman & Davidson, Registered Patent Attorneys, 251-Z Victor Building, Washington 1, D. C.

CANVAS TOP WADING SHOES $2.95 PAIR size 7 to 10½. Marlin .22 caliber lever action rifles, model 39A, $49.95. Hi-Standard .22 caliber pistols, $51.17, barrels 4½" & 6¾". Stevens Target .22 caliber rifles, with military sights, $55.00. Perrine automatic reels, $8.95. Steel fly rods, 8-8½ ft. $14.94. Nydar shotgun sight $19.50. Remington Rangemaster target rifle model 37 AR. Peep sights, $110.00. K22's S&W 6" $65.00. Price list. Percy Hoffman, 36 South Fourth St., Harrisburg, Penna.

WINCHESTER MODEL 64, CALIBER 219 zipper rifle, new, $87.35. Cartridges, caliber 219 Zipper, $12.50 per 100. Savage, model 219, hammerless, single shot, 30-30 caliber rifle, $26.20. Stevens .22 cal. single shot target rifle, model 416-2, brand new, $53.20. Remington, bolt action, target rifles, model 513TR, .22 caliber brand new, $53.50. H&R Reising, .22 caliber model 65 auto loading rifle, brand new, $57.50. Japanese Military rifles 31 or 25 caliber as issued, excellent condition, $20.00 each. Colt .45 caliber model 1917 revolver cylinders, brand new, $3.50 each. Forward money order. No C.O.D. shipments. Send coin $1.25 for Third Annual Edition of Gun Digest together with our complete catalog of new and used guns, ammunition, rifles, binoculars and powder flasks. Our separate catalog 25¢. Public Sport Shops, Dept. R-75, 11 So. 16th Street, Philadelphia, Penna.

NAVY OXFORDS GENUINE U. S. SURplus, black calf, famous makes, specify size $6.95 check or money order (Add 50¢ for postage and handling) AR Rudolph's Atchison, Kansas. 5-48.

TWO-PIECE GLASS FLY ROD $29.90, CASTing $20.00. Hershey's, Orrville, Ohio.

CUSTOM .257 ROBERTS O3A3 ACTION Ackley barrel. K2.5 Stith mounts. Checkered French walnut perfect $200.00. Winchester model 63 excellent $50.00. R. F. Smathers, 1833 Merriman Ave., Charlotte, No. Car.

FACTORY REJECTS — GENUINE IMPORTed briar smoking pipes regular $2.50-$10.00 retailers. Have surface flaws not affecting superb smoking qualities. Priced below cost of manufacture. 2 for $1.00. Gaylords, Dept. 190, Brockton 64, Mass. 5-48.

COLT O.M.T. .22 VERY GOOD OUTSIDE to excellent inside, $55.00. C. G. Kinn, 2878 Clybourn, Chicago, Illinois.

SHOTGUNS — RIFLES — HANDARMS — Ammunition — Rods — Reels — List 10¢ AR Rudolph's, Atchison, Kans. 12-48.

SAVAGE UTILITY COMBINATION 16 shotgun, 22 Hornet, perfect, $37.50. E. M. Stukas, Clinton, Iowa.

YOUR COPY OF THE POPULAR SERVENMetzger publication "Colt Percussion Pistols" awaits you. 101 illustrations supported by new indispensable data. $3.75 postpaid. Limited number of the companion monographs, "Paterson Pistols" and "Colt Dragoon Pistols," yours at $3.00 each. Carl Metzger, Publisher, 2305 Canton St., Dallas 1, Texas. 3-48.

WALNUT BLANKS SHOTGUN, $1.00. FIGured $3.00, rifle $3.00, fancy burls $8.00 to $30.00. Complete stock Browning auto. $7.50, same burl $10.00. Finished sporter for Springfield Tenite fittings checkered extra fancy burl $65.00. Value season checks $40.00. Semi-inletted shaped blanks Springfields, Enfields fancy burls $20.00 to $35.00. E. D. Bray, Newburg, Iowa. 4-48.

PARKER 20 DOUBLE 28" BARRELS, VERY good, $88.00. David Newhouse, 1338 Paul Avenue, Schenectady, New York.

7.7 JAP, 8MM. MAUSER HANDLOADS, $4.00 box. 6.5 Jap $5.00 box. Trade ammo. for commercial 8mm. Mauser. Samuel Sloper, 17 Nearmont Drive, Tucson, Arizona.

BRASSARDS

AND CELLULOID BUTTONS
Send for Circular and Price List
George O. Wood
124 Ontario St. Lynn, Mass.

38-40 WINCHESTER $8.00 PER 100. 44-40 Winchester $8.00 per 100. 16 gauge shotgun shells, western expert, #1 Buck, 500 shells to the case, $25.00 per case. 357 Magnum revolver cartridges, $7.00 per 100. 9mm. Flobert short ball rifle cartridges, rim fire, $3.00 per 100. 45 automatic pistol cartridges, late issue, $7.00 per 100, 146 grain. 30-06 F. A. Arsenal, 1935 cartridges, full patch, $7.50 per 100. 30-06 Winchester, pointed, full patch, staynless, nonmercuric cartridges, $10.00 per 100. 303 British metal point Winchester cartridges, late issue, $10.00 per 100. .38 Special 158 grain, factory load, $5.00 per 100. .38 Special, factory load 146 grain wadcutters, $4.50 per 100. .32 caliber long rim fire Kleanbore rifle cartridges, $3.50 per 100. .32 short rim fire Kleanbore rifle cartridges, $3.00 per 100. 25 Stevens rim fire Kleanbore rifle cartridges, $3.00 per 100. .22 long rifle super match #2, $6.50 per carton of 500. .22 W.R.F. rim fire cartridges, Kleanbore, $9.50 per carton of 500. 45-70-405 grain black powder rifle cartridges, $10.00 per 100. 30-40 Krag Soft point rifle cartridges, $12.50 per 100. 30-40 Krag blank cartridges, $11.50 per 100. 10 ga. Blank shotgun shells, $9.00 per 100. 351 Winchester S.L. cartridges, $8.50 per 100. All ammunition available for immediate shipment. 50¢ extra charge for all shipments of ammunition as same must be packed in wood container. Interstate Commerce Regulation. Forward money order. No C.O.D. shipments. Send coin. $1.25 for Third Annual Edition of Gun Digest together with our complete catalog of new and used guns, ammunition, rifles, binoculars and powder flasks. Our separate catalog 25¢. Public Sport Shops, 11 South 16th Street, Philadelphia, Penna.

MODEL 70, .270 CALIBER WITH WEAVER #330. Tilden scope, also 8X Litschert att. all excellent. Money order $130.00. Want good binocular 6x30 or 7x35 coated. Alton Osborne, 1252 So. Main St., Elmira, New York.

BACK DATED MAGAZINES — FOREIGN, domestic, art. Any dates. Books, booklets, pinups. Catalogs 10¢. Cicerone's Mart, 863 First Avenue, New York 17. tf.

7.62MM. RUSSIAN F.M.P. CARTRIDGES 10¢ each. Send stamp for list of other odds & ends cartridges, guns, parts. Soderlund, 10541 Tielendale, Tujunga, California.

WALNUT CHERRY AND CURLY MAPLE gun stock blanks no inletting. Louis Stockberger, Garrettsville, Ohio. 5-48.

NEW FRESH AMMUNITION FOR ALL German guns, 9.3x72R, 8x57JR, will fit caliber 7.8x57R, 8x60 rimless, this is Foreign ammunition, no handloads. New 30-06 Mauser 23" barrels fully chambered, threaded $22.50 each, same in Krag $22.50 each, Waffenfabrik-Mauser 30-06 Commercial "British Model," Zeiss 8X Multi Zielmultar, low mount, q.d. new rifle $450.00. Geco double 12x8x57JR, box lock good, $125.00. Pair of James Purdey & Son 12 bore doubles, absolutely new, side locks, price application. Want—excellent English guns, or pay cash German any type. H. C. Osborn, Box 1267, San Antonio, Texas.

REMINGTON 241 SA WITH MOSSBERG scope. Inside perfect, outside excellent to v.g. $48.00. Charles Chatow, 4 Union St., New Brunswick, N. J.

NEW AND USED GUNS. REASONABLE. List 10¢. Ted Clines, Box 15, Canton, Mass.

IDEAL #3 TOOL .38 SPECIAL, PERFECT, $6.50. Henry Griffin, Rt. #1, Bridgeville, Penna.

OUR CATALOG OF EDGED WEAPONS describing and pricing a museum collection of swords and daggers will be sent on receipt of fifteen cents in coin. Kimball Arms Company, Woburn, Mass. tf.

16MM. VALETTE SOUND PROJECTOR, PERfect condition $425.00. Dr. M. B. Cohan, Iola, Wisconsin.

HANDLOADED BLACK POWDER LOADS in new shells for twist and laminated barrels. 10 gauge $2.50. Smaller gauge $2.25. #1 10 ga. single trigger Ithaca $125.00. Examination. Deposit. W. M. Perry, 1609 Main St., Columbia, S. Car. Member. 4-48

WINCHESTER MODEL 12 MAGNUM DEluxe custom built. Finest wood obtainable by Winchester. 14"x2⅝x1⅝ Beavertail. Excellent to perfect. Fired only 20 times 4 boxes Magnum shells, $140.00. Frank M. Harper, Box 1346, Raleigh, North Carolina.

SHOT SHELL WADS

10, 12, 16, and 20 Gauge. Price Per Thousand and Description Every Other Issue.

Alcan Paper Co. WOOD RIVER, ILLINOIS

SPORTSMEN!

TAKE ADVANTAGE OF THESE MONEY SAVING VALUES. IMMEDIATE DELIVERY.

H&R SPORTSMAN REVOLVER
.22 CAL. MOD. 999
9 shot, 6" bbl., adj. sights. On .38 cal. frame. Prepaid **$44.95**

SMITH & WESSON MIL. POL. REVOLVERS .38 SPECIAL
Blued finish, 2", 4", 5", 6", Barrels, prepaid **$56.50**

K-22 MASTERPIECE REVOLVERS (Prepaid) $65.00

HI-STANDARD H.D.M. .22 AUTO. (Prepaid)
4½ or 6¾ bbl. $51.17
6¾ bbl. with thumbrest grip $54.67
M/G .380 Auto. 5" Bbl. $55.00

RIFLE SCOPES Prepaid

WEAVER G-4, 2½X, w/N Mt.	$9.75
WEAVER, G-6, 4X, w/N Mt.	12.50
WEAVER J25, 2½X	22.50
WEAVER J-4, 4X	27.50
G-88, 2½X Rifle Scope	36.50
WEAVER K-2.5 Rifle Scope	37.50
WEAVER K-4 Rifle Scope	45.00
WEAVER K-6 Rifle Scope	48.50
TEXAN, 2½X Rifle Scope	50.00
LEUPOLD, 2¼X Rifle Scope	50.00
LYMAN ALASKAN, 2½X	60.00

BRAND NEW AIR FORCE LINED PANTS

Alpaca lined with water-repellent poplin outer. 6 zippers. Lots of pockets. Heavy duty suspenders. Fits up to 34. Prepaid **$6.95**

Sheeplined with leather outer. Other features similar to above. 5 zippers & heavy duty suspenders. Fits up to size 38. Prepaid **$6.95**

WOOL LINED NAVY PANTS
Overall bib-style with adj. suspenders. O.D. water-repellent outer with wool blanket lining. Sizes small, medium, large, & extra large. Prepaid **$4.95**

FACTORY TO YOU
CORDUROY PANTS

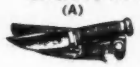
Heavy thickset corduroy. Bartacks at points of strain. Zip closure. 5 pockets. Wide cuffs & belt loops. Colors: cream, or buckshot brown or grey. Sizes 28 to 36. Prepaid **$5.95**

BOYS CORD PANTS. Same features as above. Colors: cream, or buckshot brown or grey. Sizes 6 to 16. Prepaid **$4.95**

STATE WAIST & INSEAM MEASUREMENTS

WRITE FOR FREE 1948 CATALOG LIST

HUNTING KNIVES



(A) (B)

With leather sheath. Leather washer handle with polished blade. Select style (A) with 4½ in. blade or (B) with 5 in. blade. Add 25¢ for postage & handling, ea. ..... **99c** plus 25¢ for postage & handling

SPECIAL FOR FARMERS—POLICE
00 BUCK, 12 GA. SHOT SHELLS
Federal Hi-Powder. Min. Order 5 boxes. (Shp. Wt. 18 lbs.) .. **99c** F.O.B.
CASE, 500 shells, (Shp. Wt. 61 lbs.) ..... **$18.00** F.O.B.

AMMUNITION SPECIALS FOB Seattle

.25 Auto. Cartridges, per 100	$ 5.00
.32 Auto. Cartridges, per 100	6.20
.9 m/m Luger Cartridges, per 100	9.00
.8 m/m Mauser (8x57), per 100	19.00

NYDAR SHOTGUN SIGHTS
Puts the target in the sky. Send your gun express prepaid... **19.95** Installed

CROSMAN AIR RIFLES
The famous Crossman Air Rifle is available again in .22 or .177 calibers. It's silent and powerful. .22 cal. Pellets, per 1000 $3.00 .177 cal. Pellets, per 1000 2.50 **$19.80** Prepaid
Prepaid with Purchase of gun.

SPECIAL! ONE ONLY OF EACH
SUHL OVER & UNDER, 16 Ga. 8x57x360, with Wein 4x60 Scope. Prepaid **195.00**
FRENCH UNDER BREAK, Double barrel hammer, 16 GA. 30" FM. Prepaid **59.95**

B-9 TYPE JACKET

100% DOWN FILLED JACKET with quilted stitching. Water-repellent OD poplin outer material, 2 slash & 2 side pockets. Heavy zipper front. Knitted storm wristlets in sleeves. Mouton collar forms hood when desired. Made by the makers of the Army B-9. Prepaid **$35.95**

Brand New Alpaca B-15 TYPE JACKET

Nationally popular jacket with Mouton collar, Alpaca lining, Zipper front, and Knit waist & wrists. Outer O. D. Poplin Water - repellent. Sizes 36 to 44. Prepaid **$14.95**

100% WEATHERPROOF
STORM PARKA
(PREPAID)

New Navy rubberized waterproof & windproof parka with hood. Ideal for all sportsmen. Small, medium, large & X-large. Wt. 2 lbs. **$2.95**

BIBBED OVERALLS to match. Med., Lge. $2.95

WARSHAL'S SPORTING GOODS CO.
SEATTLE 4, WASHINGTON

ATTENTION

EXPERIMENTERS, WILDCATTERS, VARMINT HUNTERS, AND ENTHUSIASTIC RIFLEMEN IN GENERAL

ANNOUNCING:

The formation of a Bench Rest Shooter's Association, devoted to the study and development of high precision, high performance rifles and ammunition, and the promotion of bench rest shooting. To meet its objectives, it is the aim of the Association to promote bench rest shooting matches through local clubs, and to promote the exchange of information and experimental data among all the members.

Included in the present membership of this association are such well known riflemen and experimenters as H. A. Donaldson (President), Col. Townsend Whelen (Vice-Pres.), Samuel Clark (Exec. Officer), A. H. Barr, J. B. Smith, Al Marciente, Ray Weeks, and L. W. Jordan, to name only a few.

Membership open to any interested shooter. Annual dues $2.00.

For further information, write to--

FRANK E. HUBBARD, Secretary-Treasurer
Bench Rest Shooter's Association
409 S. William St., Johnstown, N. Y.

MAUSER ACTIONS

FOR DISCRIMINATING SPORTSMEN

CURRENTLY MANUFACTURED BY FABRIQUE NATIONALE OF BELGIUM

WITH—SCOPE-TYPE • CHECKERED BOLT HANDLE • SOLID RECEIVER WALL • INSTANTLY REMOVABLE FLOOR PLATE

Distributed Exclusively by

FIREARMS INTERNATIONAL CO. 1526 Connecticut Ave., Washington 6, D. C.

NEW F.N. PARTS FOR MAUSER ACTIONS ALSO AVAILABLE

Price list and literature available to gunsmiths and dealers

GUNS FOR THE SPORTSMAN

NEW GUNS

Colt 38 Police Positive, 5 Inch	$53.50
Colt Super 38 Automatic	65.00
Colt 45 Automatic Model 1911	65.00
Smith & Wesson, Mil. & Police, 38 Spcl, 2, 4, & 5"	56.50
High Standard HD Military, 22 Cal. Target Pistol	51.50

*USED GUNS, AUTO. PISTOLS

P.38 Automatic	$35.00
32 Cal. Walther, pocket model	35.00
32 Cal. Mauser, pocket model	35.00
9MM Luger Automatic, 4"	35.00
9MM Browning Automatic, 13 shot	35.00
9MM and 763 Mauser Military Automatics	50.00
9MM Military Radom Automatic Pistol	25.00

*All in Excellent Condition

Send 25¢ for new catalog—catalog with Gun Digest $1.25

PUBLIC SPORT SHOPS
11 S. 16th St., Phila. 2, Pa. No COD's

RAMP SIGHTS

$2.25

Std. 3/8" Dovetail—1/2" high x 3 1/2" long. 3/8" high x 2 3/4" long. .560 & .600 Radii. Cross grooved to prevent glare (Blued or white). Enfield & Springfield take 1/2" high x .600 Radius.

Complete Your Own Ramps

Blanks: Std. 3/8" Dovetail .560 x .600 Radii. 1/2" high x 3 1/2" long. 3/8" high x 2 3/4" long. Immediate Delivery.

Gunsmiths: write for Special Discounts

McKINZIE GUN SHOP
9530 S.E. Stark St. Portland 16, Oregon

TILDEN SUPERIOR MOUNTS

—Are very low, light, strong, heat-treated and expertly finished. Quickly dismounted, positive re-zero, for many hunting scopes, including German. Mounts installed, bolts altered, Enfields remodeled. M/70 Ideal Side Lever and Mauser Scope Safties. Eads Sprfld. Safety.

TILDEN MFG. CO., 2750 N. Speer Blvd., Denver, Colo.

HELMETS, BRAND NEW, SOFT BROWN leather, woollined, type used by hunters, aviators, motor cyclists and other sports, all sizes. Value $10.00, Special $1.95 each. Rifle slings leather, U. S. Army 1¼" used, good condition, $1.00 each. Grimes rifle or shotgun slings, top grain, russet cowhide, adjustable to any shotgun or rifle, furnished in ⅞" $1.50, 1¼" widths, $1.95 each, brand new. Rifle sling swivels, quick detachable, 1¼" only, $1.25 per pair. Leggings, brand new, U. S. Army goods, heavy canvas with laces and brass eyelets, $1.00 per pair. Used Colt automatic pistol magazines, $1.75 each, good condition. Taylor precision fisherman's barometer, pocket size $7.50 each. Rifle and shotgun section metal cleaning rods precision quality, all calibers and gauges $1.50 each, brushes 25¢ extra. Recoil boot, prewar rubber, U. S. Army slip-on style, for shotgun or rifle $1.00 each. Duck and Crow calls $1.50 each, Hawk calls $2.00 each, all treated against tone change. Gent's one inch hand carved all leather western belt, tan, all sizes $1.50 each. Holster for Luger automatic pistol with 8" barrel, saddle leather, brand new, $5.00 each. Tan leather belt holsters for revolver or automatic pistol, any size, with flap, $3.00, without flap, $2.50. Shoulder holsters, all leather $4.95 each. Give barrel length and name of gun for all holsters. Send coin 10¢ for list of sportsmen's supplies available for immediate shipments. **Sportsmen's Supplies**, 250 West Bayberry Lane, Upper Darby, Penna.

ITHACA #3 DOUBLE, 28 GAUGE, 26" skeet barrels, straight grip, pad, A.E., SST, Beavertail, excellent, $150.00. Winchester M42, .410, 3" chambers, skeet grade pump, straight grip, 26" plain barrel, perfect, $60.00. Dr. R. J. Ackart, 6315 Blackburn Court, Baltimore 12, Maryland.

MAUSER MILITARY RIFLES $30.00. EXtra bolts complete $10.00. Engraved Martini action $60.00. Used 52B Winchester, heavy barrel, excellent $75.00. Smith Bro. & Gun Store, Rochester, Penna.

COLLECTORS ITEM: COLT LIGHTNING pump action 44-40, good condition, accurate original blue $90.00. D. H. Smith, 817 South Chestnut, No. Platte, Nebraska.

ENFIELD 30-06 RAMP FRONT, LYMAN rear, very good $65.00. Please do not pass this up. Member. Louis P. Rabalais, 1115 Busby St., Shreveport, Louisiana.

---

20 GAUGE BROWNING AUTOMATIC, 28", Poly Choke, excellent, $105.00. W. J. Brebach, 8643 So. Wood St., Chicago 20, Illinois.

WINCHESTER MODELS 70 & 52. PRIVATE collection of perfect scope sighted hunting and target rifles. All have Lyman Alaskans or super targetspots, Lee Dots, G&H mounts, slings, cases, factory ammunition. Few Colts with Heiser holsters and ammunition. Send 10¢ for Bonafide descriptions and prices. Major C. E. Towne, 1722 Ash Street, Lawton, Oklahoma. (Life Member)

22-250 VARMINT RIFLE, MAUSER ACTION, Buhmiller barrel, sporter stock, K2.5 scope Redfield excellent $135.00. H. Groome, 619 Durant, San Leandro, California.

HIGHLY FIGURED OREGON MYRTLE GUN stocks. Write Alfred A. Loeb, P.O. Box 1866, Piedmont Station, Portland, Oregon. 4-48.

SAVAGE AUTOMATIC 12 GA. WITH CUTTS comp. sling & swivels, N. 720 $95.00. Colt Woodsman 6½" BBL excellent, with holster. 6x30 B&L mon coated with mill scale case excellent $85.00. Dr. M. B. Cohan, Iola, Wisconsin.

STEVENS DIAMOND MODEL PISTOL, 6 and 10" barrels, detachable stock, badly pitted, otherwise good, $25.00. Rifleman, 1927 to 1947 inclusive, 3 missing, $35.00. A. W. Thresher, Bristow, Virginia.

LUGER HOLSTERS, 8" $5.00. PENQUIN, all wool, gray and red hunting socks, 3 pair for $5.00. 1½ small pistol primers by Remington, late issue, $7.00 per 1000. 10 gauge, new primed empty shell cases, 2-9/16", $3.00 per 100. #57 Remington shotgun shell primers, $7.50 per 1000. Reg. price $12.00. Gun racks by Stevens, walnut finished for three guns, $4.95 each. The Pequot, walnut finished, self-leveling gun rack for four guns, $5.95 each. Web rifle slings, used, U. S. Army, good condition, 49¢ each. Recoil boots, prewar rubber, for all shot guns and rifles, 69¢ each. Springfield leather rifle slings, good condition, 75¢ each. Forward money order. No C.O.D. shipments. Send coin $1.25 for Third Annual Edition of Gun Digest together with our complete catalog of new and used guns, ammunition, rifles, binoculars and powder flasks. Our separate catalog 25¢. Public Sport Shops, 11 So. 16th Street, Philadelphia, Penna.

GUN SWIVELS Keep those trim lines. Ask for folder. Pr. $3.50
THE ENOCH CO., 533 N.E. 78th Ave., Portland 16, Oregon

1917 ENFIELD 30-06 REMODELED SPORTER. New barrel fired 100 rounds. 330 Weaver-Redfield mount, $100.00. C. Folstad, Menominee, Michigan.

SPECIAL W&S GUN SERVICE. PERIOD restoration, American Antique Arms. Custom design of modern firearms. Write Farmers & Traders Exchange, Chittenango, New York.

ACKLEY IMPROVED ZIPPER, SHARPS Borchardt, target barrel-stocks, new $175.00. E. L. Jewett, 511 No. Workman, San Fernando, California.

PERSONAL COLLECTION—MOST EVERYthing — new—old — long — short — list 10¢. Ray Rhines, Box 777, Franklin, Penna.

WINCHESTER 75 TARGET WITH LYMAN 6X targetspot scope. Perfect $115.00. B. Z. Gray, 271 Merritt Street, Oshosh, Wisconsin.

.250 SAVAGE 40, EXTRA MAGAZINE REDfield 102, excellent $75.00. 20 ga. trap grade Smith, straight, double skeet 27" good, $125.00. 12 ga. trap grade Smith, straight, 32" M&F 3" Magnum. Nydar auto ejectors, good $150.00. 6X Hensoldt Wetzlar Duralyt. Smith custom rings. Redfield base, excellent $125.00. Clarence E. Premo, Potsdam, N. Y.

WINCHESTER H.B. NO SIGHTS EXCELlent #55429B, $80.00. Winchester 70 Hornet bbl excellent, and parts for conversion $30.00. Hornet ammo. 200 rounds $8.00, Thordarson 8 watt amplifier, 10" speaker, crystal mike $70.00. Hallicrafters console radio $500.00 excellent. Joseph Heller, 21-60 33rd St., Long Island City 5, N. Y. Life Member.

ANTIQUE ARMS. SEVERAL HUNDRED U. S. pistols and long guns. Military and sporting. No modern. Price list 25¢. Wm. M. Locke, 3607 Ault Park Road, Cincinnati 8, Ohio. 5-48.

COLT FRONTIER .45 7½" FAIR, $45.00. Colt Automatic .45 commercial, perfect $60.00. Colt Bisley .41 4-¾" very good $55.00. Mauser 8mm. 1907 good $38.00. Money order. Raymond Schleede, Troy, Texas.

ALASKA HIGHWAY MAY BE OPEN TO tourist travel this year. You can go over it without a car. See actual photos along the highway taken in 1947. Learn what to expect. Folder with route map, mile by mile list of what to see and where you will see it, requirements for cars, useful hints. 6 photos $1.00; 16 photos $2.00; folder $1.00; 16 photos and folder $2.75. (Life Member) Col. W. R. Jackson, 420 No. Pasadena Avenue, Pasadena 3, Calif.

MARLIN 91 O&U 12 VERY GOOD INSIDE and good out, $75.00. Clem Davison, 501 Walnut, Anaconda, Montana.

WINCHESTER MODEL 70-300 MAGNUM, standard grade, excellent, Alaskan, Williams Quick detachable, white line butt pad, quick detachable sling, $215.00. Harold Potter, Box 82, Northfield, Vermont.

9MM. 1916 LUGER #9197 GOOD. STOCKS & barrel fair. Holster, $35.00. James A. Emmert, State House, Indianapolis 4, Indiana.

TROPHIES, MEDALS, AWARDS. HUNdreds to choose from. Send for free catalog. R. S. Owens Company, 2039M W. 13th Street, Chicago 8, Illinois.

WANTED: UP TO 20 BOXES PETERS 357'S. Eugene Bielefeld, New Knoxville, Ohio.

NEW LIST OF MUZZLE LOADING RIFLES. Also cap and ball revolvers for shooting. 3¢ stamp please. Kimball Arms Company, Woburn, Mass. tf.

ENFIELD 30-06 BEAUTIFUL BISHOP checkered stock, swivels, 24" barrel, new 330 scope, very good, $138.50. W. W. Warner, Box 210, Findlay, Ohio.

COLT OFFICERS MODEL, EXCELLENT, 38 S&W special pearl stocks, gold bead, $50.00. N. P. Tufts, 38 Lowell Road, Wellesley Hills, Mass.

THROWING KNIVES, PERFECTLY BALanced, handcrafted, with sheath and instructions, $1.50 postpaid. Stark Manufacturing Co., 1718-L Walnut, Allentown, Penna. 5-48.

ATTENTION: SPORTING GOODS, FIREarms dealers coast to coast: Are you interested in top-notch young man to sell, handle advertising & publicity. Solid background. Available Apr. 15. Go anywhere. Robert A. Levey, 131 Holmstead St., Roxbury, Mass.

Collectors—Shooters First 1948 Issue

LATEST GUN LIST

Send 15¢ in coins to:—

J. HARRIS & SONS 873-875 N. Howard St., Baltimore 1, Maryland

BISHOP STOCKS

With mills in both the Missouri and Arkansas Ozarks, Bishop Stocks are now all made from fine dense Walnut noted for Color and texture. Design is the result of twenty years of stock making for the American Shooter. Methods of Manufacture are most scientific. Our friends and customers are invited to visit our new modern plant at Warsaw, Missouri.

Monte Carlo Sporter type stock with tenite fittings attached, Semi-inletted and semi-finished, $8.95 postpaid. Mannlicher stock with steel muzzle fitting and screw, $11.50. Newly designed heavy target stock with Mershon no-slip butt plate, $11.50. Made only for the 1917 Enfield, M98 Mauser, 1903 Springfield, 30-40 Krag, Remington 30S, Winchester 54 and M70. Catalog sent on request.

E. C. BISHOP & SON, Inc. **Warsaw, Missouri**

SHOOTING EQUIPMENT

Mossberg Spotshot Scope, 20X	$22.30
Argus Super Grade Spotting Scope, 20X coated lenses	74.50
Argus Scope Stand, black	8.50
Freeland DeLuxe Scope Stand	9.50
Win. 69 Match .22 Rifle, Lyman 57E, sling, 5½ lbs.	37.80
Win. 75 Target, Winchester sights	53.50
Win. 75 Target, Lyman sights	57.75
Stevens 416-2 Target Rifle	48.40
Win. 52 Standard, no sights	79.50
Win. 52 Std. Lyman 48F, 17A	95.05
Win. 52 HB, no sights	89.15
Win. 52 HB, Redfield sights	122.95
Win. 52 HB, Vaver sights	118.25
Rem. 513-T .22 Target Rifle, sling peep sights	53.50
Rem. 513-T Rifle, no sights	45.05
Rem. 37 Match Rifle, Rem. rear, Redfield front, sling	113.60
Rem. 521 TL "Junior Special" Target Rifle, Lyman 57 rear, 7 shot, sling, 7 pounds	36.95
Mossberg 44 U.S. Repeater	27.90
Colt Govt. Model 45 Auto Pistol	65.00
S&W, Mil & Pol, 4 or 5", .38 Spec.	56.50
Hi-Standard H.D.M. .22 Auto. Pistol, 4½ or 6¾" Barrel, Blue	51.17
10-X Imperial Shooting Coat	13.00
New Regulation Sling, 1¼"	1.75
Good Used GI Sling, 1¼"	.85
Sheep Lined Rifle Cases	9.95
For Rifles with Scopes	12.95
Rem. Palma Kleanbore & Targetmaster, Peters Dewar & Police Match, Western Super Match, Win. EZXS Staynless .22 L.R. Match Ammunition, 1,000	12.92
Regular .22 L. R. Cartridges, state brand preferred, 1,000	10.76

Special case price on .22 ammunition to Club Secretaries.

All items sent prepaid, except ammunition. We have many more items in stock. Write for price list.

Southwestern Distributor Official N.R.A. Targets

THURMAN RANDLE & CO.

208 N. Akard St. Dallas 1, Texas

JAP RIFLES

RECHAMBERED AND FITTED FOR FACTORY CARTRIDGES

.25 or 6.5 m/m altered to 6.5 x 55 m/m Mauser $15.00

.31 or 7.7 m/m altered to .300 Savage $15.00

INCLUDING TEST FIRING

6.5 x 55 m/m Mauser, 154 grain Softnose, 138 grain Spitzer boattail, Box of 20 ..... $4.00

9 m/m Luger, (Fits P-38, Browning H.P., etc.) Box of 50 ..... $4.50

9.3 x 74 Rim m/m Rifle 285 grain Softnose, Box of 10 ..... $5.50

FACTORY AMMUNITION NMNC COMPONENTS

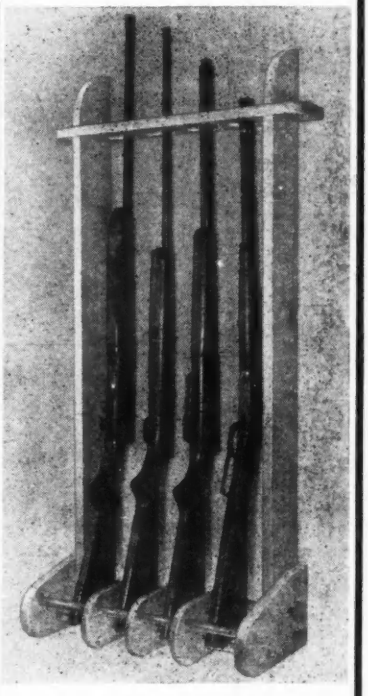
8 m/m Mauser, RELOADS, 170 grain, Softnose, Box of 20 ..... $4.00

MINIMUM ORDERS TWO BOXES

SPORT SUPPLY OF CALIFORNIA

P. O. Box 396 Montrose, Calif.

Protect & Display YOUR GUNS



Display and protect your guns at the same time, with the Booth Gun Rack. This rack, of knotty pine, birch or maple, dowel and glue construction, is completely sanded for finishing to match surroundings. It comes semi-assembled.

The Booth Gun Rack hangs on the wall or stands on floor and holds your guns upright in the proper position. Order a Booth Gun Rack direct, or from your dealer. Place your guns where they'll be safe and enjoyed 12 months of the year.

Racks come standard four holes. Larger sizes available up to eight holes. When ordering, specify if other than standard. Add $1.50 to order for each additional hole.

KNOTTY PINE $10.90
BIRCH OR MAPLE 12.90
EXTRA HOLES, EACH 1.50

All shipments Railway Express Collect (shipping charges only). Send check or money order—No C.O.D.'s.

Dealer Inquiries Invited

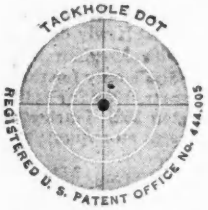
Booth Products

Alden 1, Michigan

WARNING!!

Regarding Imitations of

LEE TACKHOLE DOT



Many instances are coming to my attention lately where unscrupulous dealers are accepting orders for Lee Tackhole Dot reticules and shipping customers rank imitations. Some of these I have examined are worse than awful jobs. Scopes are damaged from improper dismounting and assembly. Dots are blobs of wax or cement on coarse hairs and render good scopes useless. This ad is published for the protection of the buying public and my customers. Every Lee Tackhole Dot job leaving my shop has my printed label on it, with my Copyrighted trade mark "Tackhole Dot." If it doesn't bear this label it is not genuine.

Demand it when you order through a dealer.

Any article of such outstanding merit as my reticule will attract imitators naturally. Beware of whom you send your scope to and make sure he or the firm is reputable. A scope sight is an instrument of extreme precision and only those qualified should be permitted to work on them. Anyone selling an imitation and representing it to the purchaser to be a Lee Tackhole Dot is guilty of fraud in other ways besides mail fraud, if the order is handled through the mails, and the consequences to them can prove serious. My literature, illustrations of reticule designs, etc., have been copied almost verbatim. So look for my label when you buy and shun the cut price "here today, gone tomorrow" outfits. Some of these imitation jobs coming in here with broken reticules for replacement, scopes have been literally ruined by improper dismounting.

The technical know-how gained thru eleven years' experience in making Tackhole Dot, the finest optical instruments the world affords to work with, plus constant research in this field, guarantees a product unequaled in perfection and performance. Back of such a product is the unquestioned integrity of the maker, unvarying promptness and courtesy in rendering any service required. Specify the genuine, original, Lee Tackhole Dot in your scope, look for my label. Tackhole Dot is made nowhere else than here.

Tackhole Dot is standard factory equipment when specified, in Lyman target scopes and Alaskan, the Stith-Kollmorgen Bear Cub, Norman-Ford Texan, Unertl, Fecker and Litchert target scopes. Hundreds of reliable dealers throughout America to serve you, or direct orders here will be handled promptly.

New scopes in stock. TH Dot equipped, immediate shipment: Weaver J2.5 $30.50, J4 $35.00, K2.5 $45.50, K4 $53.00, K6 $56.50; Alaskan $72.50, Texan $62.50, Bear Cub De-Luxe $65.00, Weaver, Stith & Redfield mounts, Argus spotting scopes $74.50. Kollmorgen Monettes $59.50. Lee Dot installed in your Weaver J, K and 330-440 scopes $8. Alaskan, Texan and Noske $12.50, Bear Cub $10. Target scopes $10. Litschert Attachments. Free illustrated folder and price list. Prompt service always.

T. K. LEE, P. O. Box 2123, Birmingham 1, Alabama

(Life Member N.R.A., U.S.R.A. and American Gunsmiths Guild)

FREE KLEIN'S SPORTING GOODS famous "TRICK" FISHERMAN'S RULER

Write for your free ruler today! Measures the "Fish that Got Away!"

FLASH! Klein's Sporting Goods big new Spring and Summer 1948 "Fishing and Hunting Handbook" is hot off the press! Shows thousands of new and used guns, hunting, camping and fishing tackle values. The Handbook is only 25c (coin or stamps – refundable with your first order).

SCOOP!

22 TARGET REVOLVER

Back again! First time available since 1941! H & R "922" is a medium weight, solid frame revolver with a safety cylinder which permits the use of high speed 22 ammunition. The cylinder holds 9 cartridges. A durable checked stock of Tenite permits correct position of hand. You will like the strong construction and smooth action of this popular revolver of proven performance. Whether it's for plinking or target practice or home and store protection, this great 22 revolver will meet your requirements 100%.

Specifications: 9 shot, 6 inch barrel; over all length 10½"; weight 24 oz.; Blue finish; fixed blade front sight; shoots 22 short, long, or long rifle ammunition. Shipped express prepaid . . . only..... **$24.75**

Rush Coupon for Trick Ruler (FREE) and Catalog (25c)

Klein's Sporting Goods, Dept. E-3
227 W. Washington, Chicago 6, Ill.

- ☐ 25c enclosed (Refundable with first order) for big New Handbook of Sporting Equipment.
- ☐ Rush Free "Trick Fisherman's Ruler."

Enclosed is ☐ Check ☐ Money Order for $_____
☐ Ship C.O.D. (20% Deposit Required)
☐ Rush me ____ 22 Revolvers @ $24.75 each.
Write name and address on separate sheet and attach.

Shivell Builds

FINE CUSTOM RIFLES

Superior Weapons in standard calibers, Lightning Magnums, proved Varmint Wildcats & Target Arms.

●

Featuring Safety Breech & LoBolt. Enfield, Springfield and Krag Parts.

●

Large stock, New & Used Guns, Scopes, Primers, Powder, Speer bullets .22, 257, 270, 7mm, 8mm & 30 cal.

Work and goods Guaranteed
Stamp for list—Time Payments arranged

ARTHUR SHIVELL
4323 Sunset Blvd. Los Angeles 27, Calif.

---

3 In 1 AIR PISTOL

SPORTSMAN JR. — sensational, low-priced air pistol. Ruggedly built, full size target gun shoots either standard BBs, pellets or steel darts. Fast, single-action compression chamber. Single shot; silent shooting. Use indoors or outdoors. Modeled after famous target pistol. Economical to operate. Die cast all metal non-slip moulded grip; machined steel chamber and barrel. 8-in. long; 4¼-in. deep; full size weighs 15 oz.

$3.49

Shoots BBs Darts Pellets

No C.O.D. EACH ONLY..... **$3.49**
BB's, 3 pkgs. 25c; .177 pellets, 500 for $1.50; steel darts, 35c package. (Order plenty.) Holster 50c
JOHNSON SMITH & CO., Dept. B-98 Detroit 7, Mich.

You can put this space to work for you regularly, at a very reasonable cost —only $25.20 per month for 12 consecutive insertions. Rates are slightly higher on an every-other-month schedule, or for single insertions. The circulation of THE AMERICAN RIFLEMAN is over 300,000 copies monthly —and increasing steadily. We are producing splendid results for dozens of advertisers who use this size space right along. Send us "copy" instructions now, for the next issue.

A One-Inch Display "Ad"

EXCELLENT 16 GA. KRUPP STEEL A. H. Fox double with leather case $100.00. Excellent 16 ga. double H. Schneider with offset stock, brings barrels directly front left eye $150.00. Shipping charges prepaid. Wholesale prices on guns, ammunition to Boni-Fide Dealers. Dakin Sporting Goods Company, 25 Central St., Bangor, Maine.

2R LOVELL, WINCHESTER 54 SPORTER, heavy barrel, scope blocks, 125 loaded cartridges & reloading dies. Inside excellent, outside very good, $125.00. Herbert Fleming, 127 Putnam Street, Marietta, Ohio.

OUR LIST OF MODERN ARMS WILL BE sent on receipt of three cent stamp. Kimball Arms Company, Woburn, Mass. tf.

---

31 REMINGTON SKEET VEN. EXTRA BARrel 28 mod. $140.00. Remington 31 skeet ribbed $91.00. Winchester mod. 40, 30" full extra barrel 28" mod $120.00. Winchester 16 ga. trap 26" cutts, ribbed $125.00. Winchester 12 skeet ribbed cutts $125.00. Winchester 12-12 skeet ribbed perfect $140.00. Winchester 21 16 ga. deluxe skeet ven. $295.00. Winchester 21 16 26" skeet also 30" F&M, sole leather case for outfit $250.00. All excellent to perfect. Hershey's, Orrville, Ohio.

SHOTGUN SHELLS TO DEALERS, GUN clubs, case lots only. State specifications and quantities wanted. AR Rudolph's, Atchison, Kansas. 5-48.

SAVAGE 99 250-3000 E. G. VERY GOOD regular sights, sling swivels, $77.00. Dwight Downing, Bloomfield, Iowa.

---

218 MASHBURN BEE, SINGLE SHOT, KRAG action, standard 52 barrel, four power scope, very good. Components, $75.00. A. F. Sanders, 407 Julian Place, Kirkwood 22, Missouri.

$1.00 DELIVERS HANDSOME SOLID BRASS rifle rod outfit, postpaid. Includes patch tip, one finest quality phosphor bronze brush, one soft bristle. State caliber desired, .410 also. Same except two piece jointed rod, canvas kit, $1.25. Woodford Mfg. Co., Lyndhurst, Ohio. tf.

AMMUNITION AVAILABLE FOR IMMEDiate shipment: Fresh stock factory loads: 218 Bee $6.67 per 100. 219 Zipper $10.00 per 100. .22 Hornet $7.50 per 100. 220 Swift $11.30 per 100. .22 Savage $10.50 per 100. 25-20 $5.50 per 100, 257 Roberts $12.95 per 100, 270 Winchester $14.00 per 100. 7mm. Mauser $14.00 per 100. 7.62 Russian $14.00 per 100. 30-06 $14.00 per 100. 30-40 Krag $14.00 per 100. .32 Winchester S.L. $8.00 per 100. 33 Winchester $14.00 per 100. 8mm. Mannlicher-Schoenauer $14.00 per 100. 8mm. Mauser $14.00 per 100. 348 Winchester $15.60 per 100. .35 Winchester S.L. $7.75 per 100. 351 Winchester S.L. $8.40 per 100. 38-40 $7.50 per 100. 38-55 Winchester $10.75 per 100. .44 S&W Russian $6.45 per 100. 44 S&W Special $6.75 per 100. 44-40 Winchester $7.50 per 100. 45 Automatic $7.65 per 100. 45-70 Government $12.90 per 100. .22 Match Palma. Super Match or Mark II, $6.50 per 500. .22 W.R.F. $9.15 per 500. .22 Long Rifle shot $7.50 per 500. .22 BB Caps or .22 CB Caps $6.50 per 1000. 1¼" soft, pliable leather gun sling used, 75¢ each. Terms: 20% deposit with order. Balance C.O.D. Miller's Sport Shop, Dept R. 142 No. 8th St., Philla. 7, Penna.

HORNET MODEL 70 SUPER EXCELLENT in and out; Texan with King-Pike, six boxes factory ammo, about 130 reloads, lined gun case, $224.00. Zeiss 7x50 binocs optics fine outside good, no case, $113.00. F.O.B. W. W. Barrett, 35 De Sabla Road, San Mateo, Calif.

NEW M70 .257 ROBERTS CALIBER, K-4 LEE Dot scope, Top U mounts, Lens caps, Tilden safety, special high checkrest stock, recoil pad, sling, 40 cartridges, $225.00; New M-81A, 300 caliber automatic, Weaver K-4 Lee Dot scope on G&H mounts, 40 cartridges, $225.00; excellent 12 ga. sportsman, solid rib, Cutts comp, sheepskin case, 20 boxes H.V-6 shells, recoil pad, bargain $150.00. Dr. E. D. Hemphill, Ida Grove, Iowa.

COLTS .38 AUTOMATIC, MILITARY MODEL 6", reblued, equipped with Colts beautiful pearl grips containing Colts medallion. Excellent, $50.00 C.O.D. inspection privilege, $2.00 deposit. J. Duffy, 1321 Delafield Place, N.W., Washington, D. C.

SAVAGE M99, 300, EXCELLENT, COATED Alaskan, Stith $155.00. Savage M99 300 v.g. $82.50. Savage M99 303 good $65.00. Remington M14 .30 v.g. $75.00. Remington 8 35 v.g. $87.50. M81 Remington .32 v.g. $104.50. Winchester M94 carbine 30-30, good $42.50. New $59.50. M92 Winchester 38-40 carbine fair $22.50. Onondaga Gun Supply, 211 Montrose Avenue, Syracuse, New York.

McMURTRIE GUNSHOP

CUSTOM GUNSMITHS; military rifles converted to standard or deluxe sporting rifles. Specializing in fine stocks, $35.00 and up. Re-barreling for most calibers.
722 South Central Avenue Glendale 4, Calif.

300 SAVAGE EG, EXCELLENT; 257 ROBerts; 270; 30-06, Mauser actions, slings, Weaver scopes on all; K.22 Masterpiece, latest; Others; ammunition, etc. 10¢ for list. Description. B. A. Ferringer, Mayport, Penna. 5-48.

WINCHESTER MODEL 75 $48.50. MODEL 52 57F sight $84.00. 48F sight $90.00. Model 69 57E sight $31.50. Remington model 521T $30.10. Model 37 $105.76. All new. Cashiers check or money order. Fred Haag, Poplar Bluff, Missouri.

.257R WINCHESTER M70, PREWAR, 330C Weaver, Stith mount, components. Ideal dies, perfect in, v.g. to excellent out, $200.00 or cash offer. Ballantyne, Eureka, Montana.

PARTS FOR PERCUSSION COLTS AND Remingtons. Flint and percussion locks. Large parts list 25¢ coin. All lists for 1948, $1.10. C. H. Weisz, 100 So. Uhle Street, Arlington, Virginia. 5-48.

FACTORY AMMUNITION — 9MM. LUGER, $3.90 per box. .32 automatic $3.00. 25 automatic $2.50. 8mm Mauser $4.00. 30 Luger, 30 Mauser, 380 automatic $3.10. 303 British full patch $2.00. 16, 20 gauge rifled slugs $3.25. .22 automatic 85¢. .22 W.R.F. 85¢. #8½ large rifle primers $5.00 per 1000. Over 75 other sizes in stock. Dime for list. Central Sports, Delphos 2, Ohio.

UNERTL RIGHT ANGLE SPOTTING SCOPE with Freeland deluxe offset stand factory condition, $82.50. National Rifleman April 1932 to December 1947. Four numbers missing, $15.00. A. R. Knapp, Corry, Penna.

WINCHESTER 63 29S LEE DOT REDFIELD Jr. mount. Redfield micrometer rear high ivory bead front for use over scope mount, sling swivels very accurate, excellent, $90.00. A. P. Thomas, Star Route #1, Box 40-A, Shelton, Washington.

L.C. SMITH, DOUBLE, IDEAL GRADE, very good, 12-30, $75.00. Weaver K2.5 scopes $37.50. Genuine sheepskin gun cases, carbine $9.85, rifle $10.25. Universal binoculars, 6x30, coated optics, case, $89.50 plus fed. tax. Taylor fishermans barometers $7.00. Taylor altimeters for your car $7.50. Two #4607 A.C. Gilbert electric trains with 100 watt transformers, new, original cartons, regular price $39.90, $60.00 for both or trade for rifles of equal value. Frankfort Sporting Goods Supply, Box #623, Frankfort, Michigan.

SPECIAL CLOSEOUT PRICE ON NEW MERchandise, while they last. Weaver K2.5 scopes, coated, $30.00, top mounts $4.75, Argus Super scope with stand $60.00. Neptune 1½ H. P. Motors $49.50, 3½ twin $100.00. Champion deluxe 4.2 H. P. $110.00, .22 long rifle Rem. ammo. $85.00 case 10,000, Nydar shotgun sight $20.00, Winchester 75 sporter with Weaver K2.5 near perfect $85.00. Parker Sporting Goods, Collierville, Tennessee.

2R LOVELL — 70 WINCHESTER — 440 Weaver with 6X Litschert attachment, very good inside and out, 300 loaded cartridges, resizer, bullet seater, powder, empties, etc. $175.00. M. A. Scherffius, Dickinson, No. Dakota.

NEW HI-STANDARD'S, K-22'S, ALASKAN All Weather, feather foam jackets. Shipped C.O.D. fair trade price only. Stark's, Prairie Du Chien, Wisconsin.

BEAVERTAIL FORENDS, PLAIN OR fancy, $15.00 up. Gunstocks, Superb oil refinished, hand rubbed $5.00 up. MK 218 spotting scopes 20X, $22.50. Scopod stands $4.95. Weaver, Unertl scopes. Scope mounts. Write. R. J. Anton, 1016 Riehl St., Waterloo, Iowa. Member.

SEND 25¢ IN COIN, STAMPS 1948 GIANT list. Used rifles shotguns handguns. Onondaga Gun Supply, 211 Montrose Avenue, Syracuse, New York.

AS ISSUED NATIONAL MATCH SPRINGfield #1310873 30-06 star gauged C stock headless bolt sling, very good to excellent 65 Kleanbores. First money order $90.00 takes it. Life Member. Burton W. Meltvedt, Paullina, Iowa.

U.S. MILITARY FIREARMS, 1776-1946. Basic book for collectors, illustrated by 88 full page plates, price $6.00. James Hicks, 428 Rich, Mount Vernon, N. Y. 4-48

20 GA. AUTO. REMINGTON SPORTSMAN new $94.00. 351 Winchester auto, new $120.00. .38 Super Colt auto. new $65.00. 16-28 Fox Savage double excellent $58.00. 12-30 Ithaca excellent $79.00. 20 ga. Ranger-Stevens pump excellent, $58.00. .22 cal. new 39 Marlin, sheep case, $58.00. Air mail or wire money. (Member.) Frayseth's, Willmar, Minnesota.

"I am having wonderful results from BLU-BLAK. My customers all are well satisfied and I have all the work I can turn out."
ROY L. SHELBY
Cut Bank, Montana

See Page 70

Designed by Riflemen for Riflemen!

10-X
the PERFECT SCORE ... the PERFECT SHOOTING COAT

NOW AVAILABLE

10-X Imperial riflemen's coats are now available with diamond tread, no-slip, rubber covered elbow pads at no extra cost. You may either have leather pad covers on your elbows or you may have no-slip, rubber elbow pad covers at the same price. Zipper (Talon) front is available, too, but at slight extra cost.

WRITE FOR FREE 1948 CATALOG

The new 10-X catalog of shooting coats is now ready. All you have to do to get one is send your name and address on a postcard. The catalog is FREE.

SEE YOUR DEALER

He should have 10-X riflemen's coats in stock. See them, feel the quality, try them on. Look for the 10-X label when you buy. It's your guarantee of real quality.

10-X MANUFACTURING CO.
303 ELEVENTH STREET — DES MOINES 5, IOWA

POINTER STOCKS Molded plastic in walnut or ebony for Colt Woodsman and Hi-Standard, all models $5.50. Colt and S&W Revolver models, large stocks $5.50, small $5.00, Colt .45 Auto. $6.50. All above 50¢ extra for Ivory color. We are originators of plastic thumb rest stocks.

Now Pointer Pups! Plastic imitation stag, **without** thumb rest for Colt Off. Pol.; S&W M&P Magnum $4.00 pr. At your dealers or direct.
We also have **without** thumb rest **genuine** Pearl, Ivory and Stag stocks in most models.

Free Illustrated Circular
We Do Not Sell Guns
SOUTHWEST CUTLERY & MFG. CO., INC.
1307 Olympic Blvd., Montebello, California

SOUTH BEND **QUALITY LATHE DOGS**

Heavy malleable iron. Tail shaped to fit face plate slot. Standard Dog has square head screw. Safety Dog has headless screw. Prices for either style.

Capacity	Price*	Capacity	Price**
½"	$0.80	½"	$0.70
¾"	.95	¾"	.75
1"	1.05	1"	.90
1½"	1.20	1"	1.00
1½"	1.40	1½"	1.10
1¾"	1.55	1½"	1.35
2"	1.70		
2½"	1.95		
3"	2.20		
3½"	3.00		
4"	4.00		

*13-inch or larger lathes.
**9-inch and 10-inch lathes.

SOUTH BEND LATHE WORKS 452A E. Madison St. South Bend 22, Ind.

COMER'S
PRECISION POWDER MEASURE
Machined & Polished throughout. Non Adjustable. Operates with left hand. Cases loaded in block saving time. Fastest measure on market. Custom built. Write.
PAUL COMER, 111 Price Ave., Narberth, Pa.

Select YOUR GUN OR RIFLE COVER FROM THE *Grimes* LINE

Here are two of the many beauties in the Grimes Line

All Grimes covers are handsomely made from finest materials by skilled craftsmen. Choice of covers made from all-leather, heavy duck, duck with leather trim and new plastic mildew-proof materials.
Price range from **$1.35** to **$40.00**

SEE THEM AT YOUR DEALER
If he cannot supply you, send us his name and we will mail you a complete catalog.

BRADLEY E. GRIMES CO.
WEST COLLINGSWOOD HEIGHTS, N. J.
Hunting, Camping, Fishing and Sport Accessories

Blackinton is "In Step"

The N.R.A. Annual Report emphasizes the need for widening the interest in shooting by widening the activities of rifle clubs. The Blackinton award line fosters this interest. There are special awards for juniors, for lady pistol shooters, for police, for archers. All are examples of skilled supervision, artistic design, and master die craftsmanship. Shooting is a Blackinton tradition.

• ● •

V. H. BLACKINTON & CO. Inc. ATTLEBORO FALLS, MASS.

"The Oldest Name in Military Insignia"

MASHBURN'S Q. D. Mount & Superior Trigger

ARE IN DEMAND

EVERYWHERE BY SHOOTERS & DEALERS

QUICK DETACHABLE MOUNT

Sturdy, low, neat. Replaces to absolute zero. No adjustment in mount to change zero when scope is replaced. Made for most rifles and all scopes having windage and elevation adjustments. Sizes ¾", ⅞" and 1". Mount as illustrated, $15.00. Special mount Win. M-70 and 54, installed without drilling receiver, $17.50.

SUPERIOR TRIGGER

Replace that old trigger now with Mashburn's Superior Trigger with a clean, crisp pull. Has no military take-up, no back slap. Adjustable for desired pull and creep. For Mauser, Springfield, Enfield and Remington Model 30 and 720. Price, $15.00.

We are increasing production as rapidly as possible to meet the fast growing demand of these items. See your dealer or write direct:

SUPER STOCK FINISH AND FILLER

The original speedy oil type finish. Don't take a chance on a substitute. Better protection, tougher, more beautiful than linseed. Less than half the time. Enough for several stocks. Smooth r finish when filler is used, $1.00 ea.; $2.00 kit. ***See your dealer or order direct.***

Discount to dealers

Large quantities for gun shops.

MASHBURN ARMS CO.

1220 N. Blackwelder St., Okla. City 6, Okla.

BULLET POINT PROTECTOR

Stop recoil smashed bullet points with a Bullet Point Protector in the magazine of your rifle. Get your rifle ready for spring shooting now! You don't deliberately smash the bullet noses of your ammunition before loading your rifle, and you certainly wouldn't buy ammunition with deformed bullet points, so why let your rifle recoil do this.

If you believe bent, smashed, or blunted bullet points give you better Accuracy and penetration, don't buy a Bullet Point Protector because this gadget holds the ammunition at the rear of the magazine and does not allow recoil to pound the bullet noses with the front of the magazine. This gadget also prevents ammunition jamming in magazine because bullet points never touch.

For following rifles and calibers:

SPRINGFIELD, 30-06 .270, 8M.M., 7M.M., 6.5M.M., 25-06, .257, and Magnums or Wildcats based on '06 case.

ENFIELD, Same calibers as Springfield. For 5 shot magazines and 30S Remington, grind off bottom to fit your particular magazine. We will also send with each Enfield Protector, instructions on how to eliminate feeding troubles from receiver to chamber.

WINCHESTER Model 70 & 54, calibers 30-06, .270, and 7M.M.

Mauser, Adjustable to any caliber. Not recommended for cartridges with gently sloping shoulders such as .300 Magnum, or cartridges with very small shoulders such as 35 Remington. Must be soldered to side of magazine for permanent installation. We install free if magazine and follower are sent to us. Price Postpaid ----------$1.50

Easily installed—Guaranteed—Lasts a lifetime.

Discounts to dealers and gunsmiths.

FLOYD F. HELD CULDESAC, IDAHO

STOP Looking Thru Smudge Eye Glasses

Now—an amazing scientific discovery cleans eye glasses in **27 Seconds.** Cleans, polishes! Banishes finger marks "as if by magic." One application lasts two weeks. **SEND NO MONEY.** Full year's supply in plastic compact sent C. O. D. for only 59¢ plus charges. 2 for $1.00. Send cash, we send prepaid. **Money back guarantee.** Agents wanted. 27 Second Cleaner Co., Dept. 376-C. 6337 N Talman, Chicago 45, Ill.

AIR RIFLES BENJAMIN AIR PISTOLS

PIONEERS—LEADERS

Send for Free Folder of Latest Models Today

If you want a **REAL GUN** for **PRACTICAL USE** inside or outdoors, get a **SAFE — CLEAN — ECONOMICAL BENJAMIN** with Amazing Accuracy and Adjustable Power. Use **BENJAMIN H-C PELLETS** for **BEST RESULTS** in all Rifled Models. **WRITE AT ONCE.**

BENJAMIN AIR RIFLE CO., 807 Marion St., St. Louis, Mo.

$30.00 will rebarrel your MAUSER, ENFIELD or SPGFLD to any of the following calibers 22-250, 250 Sav., 257 Robts., 270 Win., 300 Sav., 30-06.

All jobs are prooftested

VALLEY GUN SHOP AMBRIDGE, PA.

400 **WHELEN G&H CUSTOM RIFLE** PERfect $250.00. Remington 29T skeet vent. rib excellent $80.00. 8mm. Mannlicher Haenel. Hensoldt. Dialytan, excellent $130.00. Winchester 54 Hornet Stith 330 Excellent $130.00. Parkers DHE 16 Beavertail perfect $250.00. G.H. 12x32 full excellent $125.00. D.H. 12x28 open good $80.00. V.H.E. 12x30 F&M excellent $125.00. V.H. 12x32 Beavertail forend, S.S.T. vent. rib, Morgan pad, $165.00. A.A.H.E. deluxe field gun 28" imp. mod, perfect. Smith 16 special deluxe S.S.T. vent. rib, 80 inlays green yellow and purple gold, fully engraved (new) list $1750.00. Best offer Smith 12x28 Crown F&M old model, modern steel excellent $80.00. Winchester 92's excellent rifle 32-20, $40.00, carbine $35.00. Winchester 52 heavy excellent $79.00. Remington 513 perfect $45.00. New Goods: Weaver G.4. $9.00. Wollensak field glass coated $26.00., Marlin 39A $50.00. .22 Masterpiece $65.00, two piece glass fly rod on approval $29.00. Hershey's, Orrville, Ohio. Phone 1086.

S&W, K.38, EXCELLENT $50.00; .44 S&W, S.A., about v.g, $26.00; .36 Colt Navy, v.g., 30% finish, tight, $38.50; Another, good, tight, $26.50; Colt 1860, fine bore, tight, some finish, v.g., $38.50; Same, good, $24.50; 9mm. Steyr, 1914, v.g., $24.50; .33 caliber Winchester, takedown, excellent, ammunition, $83.50; Savage, 12 ga. overunder, excellent, $67.00; .25 Jap rifle, new $14.00. Kit Kapp, 1708 Howland, Cincinnati 23, Ohio.

NEW UNFIRED M70 .257 $135.00. PERFECT custom Enfield 30-06. Redfield hooded ramp, #70 rear, cheek-piece, swivels, ebony forearm tip, guard straightened etc. $90.00. W. F. Pavitt, 5050A Potomac, St. Louis, Missouri.

L.C. SMITH, IDEAL-GRADE H. P. DOUBLE, barrels excellent condition, price $128.00. Straight stock & Circassian walnut. Samuel Everett, Stockton, New Jersey.

TRIPLE-BARRELED, 16 GAUGE DOUBLE with 8/9mm. rifle, engraved, by Christoph Funk, very good, $200.00. Charles Sizemore, 4815 Morse St., Cincinnati, Ohio.

SPRINGFIELD 30-06, SPORTER WITH K2.5 Weaver, very good, $110.00. Redfield mounts, Pachmayr pad. Geo. Weber, Ackley, Iowa.

SAVAGE 45 MODEL 250-3000 SUPER sporter, 29S scope, post, Litscherts 6X attachment with special mount. Inside perfect, outside near perfect, extra clip, 40 rounds, nice suitcase type case $150.00. P. A. Pue, Medina, Texas.

NEW—GENUINE ARMY SIGNAL SATCHEL, w/comfort shoulder strap, neatest shell, game, fishing bag you can buy, $1.50 postpaid. New Corkball Whistles 50¢. 100 other bargains, dealers-clubs! ask quantity prices J. C. Bogan, Dahlgren, Illinois.

ENFIELD 1917 EJECTORS, GUARD SCREWS, front and rear for Krag, Enfield, Springfield, Mauser. New, postpaid, 35¢ each, $3.00 dozen, $20.00 hundred. Robert Woerner, 6536 Oxford Avenue, Philadelphia 11, Penna.

NEW: U.S. .45 AUTO. HOLSTERS, $1.65, magazines $1.50, pistol belts 95¢, recoil pads 50¢. Used: .45-magazine pouches two for 25¢, Springfield bayonets, with scabbard $1.60, 1¼" leather slings 75¢ postpaid. Brink, 10 Esmond Place, Tenafly, N. J.

S&W 38'S. M&P BLACK SAM BROWNE belt and holster, excellent. 300 loads, empties, tools and components $70.00. American Rifleman Sept. 1931 through 1947, $15.00, single copies 1938 to 1946 10¢ each. C. T. Patterson, Tionesta, Forest Co., Penna.

8MM. MAUSER AMMUNITION. FINEST quality hunting loads. 170 gr. S.P. Uniformity assured. $4.00 per 20. Stout's Custom Loads, 148 West First, Salida, Colorado.

9MM. LUGER, 8MM. MAUSER, 7.7 JAP AMmunition, $4.00 per box. Send check or money order. Drake Bros. Custom Loading, Hartford, Michigan.

257 CUSTOM MAUSER DOUGLAS BARREL beautifully stocked and hand checkered by Thomas Shelhammer 330 Lee Dot Turner mount installed by Ackley Ackley safety low bolt q.d. sling swivels, perfect fired 20 times, 2 boxes factory ammo, $200.00. A. P. Thomas, Box 40-A, Shelton, Washington.

COMMERCIAL MAUSER D.S.T. ACTION, 8MM. barrel, excellent $50.00. E. H. Worth, 65E. Chandlorsville St., Ft. Devens, Mass.

CIVIL WAR CARBINES. MANY RARITIES. List 6¢. Wm. M. Locke, 3607 Ault Park Road, Cincinnati 8, Ohio. 4-48

WANTED

SPRINGFIELD & MAUSER ACTIONS

HIGHEST PRICES PAID.

SPICER'S SERVICE ROSEVILLE, ILL.

PURE HONEY 5# PAIL $1.75 POSTPAID within 1,000 miles. Fine flavored Northern Michigan white clover-wild raspberry blend. Really good. Satisfaction or your money back. R. H. Kelty & Sons, R #2, Box 202, Lansing, Michigan.

WINCHESTER H.S. .38-55, GOOD $35.00. Catalog U.S. Cartridge Collection $3.50. Sharps Buffalo .40-70, fair $25.00. Colt Lightning pump .32-20, poor $15.00. 7 M.L. shotguns from $5.00 to $15.00. Ernest Baldwin, Trenton, N. J. R.D. #1.

4759, BULLSEYE, UNIQUE, 6, 5066, $1.80 pound. 4350, 4227, 4198, Hi'vel, 2400, 4064. Lightning Sharpshooter $1.50 pound. Fired 30-30, 300 Savage cases 2¢. From 30-06, 8mm. cases 3¢, 170 grain S.P. reloads 12¢. LeVern Hanstedt, 901 Blaine, Racine, Wisconsin.

ITHACA FEATHERWEIGHT 16 GA. FULL 26", excellent, $70.00: Springfield Rock Island 229839 walnut sporter stock, receiver sight, v.g. $70.00: Enfield sporter, ramp and Redfield #70, walnut stock, excellent $75.00; Gov't .45 auto., excellent, $40.00: 257 Roberts or .270 Winchester on Mauser actions, low bolt, band ramp and Redfield #70, walnut stock, new $100.00: Rebarreling in .257, .270, 30-06, scopes, sights, etc. R. A. Wardrop, 831 Center St., Shamokin, Penna.

NECK RESIZING INSERTS FOR YOUR Pacific dies $4.50. See ad in January Rifleman. 250-3000 dies with insert, $16.00. Colt 32-20 Army special, very good, reblued, $45.00. L. S. Weld, 11 Mildorf St., Rochester 9, N. Y.

8MM. MAUSER AND 7.7 JAPANESE CARtridges $4.00 box of 20. 30 M1 carbine lead gas-checked 109 grain bullets $4.00 a 100 in your cases. Brooks Cartridge Reloading, 488 Cherry, San Bruno, California.

NEW GUNS—MOST POPULAR MODELS IN stock. Also scopes, sights, accessories, supplies. Trades accepted. Write for list. Wahl, Bogota, New Jersey.

HI-WALL .219 WASP 200 AMMO. V.G. $130.00. Hi-Wall .219 Zipper 180 ammo. v.g. $130.00. 52 H.B. excellent 3500 Match ammo. $150.00. Sport scope and case 9x50 new, $55.00. Millard Wood. 1606 Tracy, Endicott, New York.

WINCHESTER 12 GA. MAGNUM 34" FULL, good condition, $80.00. Grover S. Tyler, 325 W. Spruce St., Missoula, Montana.

PAIR HIGH GRADE ENGLISH DOUBLE barrel shotguns. Prewar made by Charles Hellis Sons, 12-28 straight grip stock, auto ejectors, double triggers, finely engraved, shoots 2¾" shells, v.g. $650.00 for the pair. High grade double, made in Dublin by Kavanagh & Son, 12-28 straight grip, nicely engraved, v.g. $275.00. Very fine W.W. Greener, 12-28 auto. ejectors, not engraved, v.g. plus $175.00. Hudson, R-52 Warren St., New York 7.

LIKE NEW ENFIELD SPORTER, REmodeled by Curt Beyer. Star gauged Springfield barrel, Weaver 29S with flat top pointed post reticule, beautifully stoked, capable of 1¼ min. groups at 600 yards with match ammunition $145.00—C.O.D. Subject to approval, excellent condition. C. F. Seger, 9909 Montana, Franklin Park, Illinois.

LATE O.M.T. .22 V.G. TO EXCELLENT $44.00. Lemaire binoculars 8x25 fair $12.50. Dumaurier monocular 8x good $7.50. C. A. Beard, Himrod, New York.

MAUSER COMMERCIAL SPORTER, 06, ribbed barrel, set trigger, Redfield 70, v.g. $125.00. Sauer Mauser action, medium heavy .220 Swift barrel, beautiful target stock by Straub, fancy checkered, blocks only $150.00. New Hensoldt 8x56 binoculars, case, straps $150.00. B&L 7x50, w/case, excellent $85.00. H&R 999, holster, original box $40.00. Colt 45 auto, v.g. $45.00. S&W, M&P, .38 Special perfect, $50.00. Engraved Ballard, .32-40, fancy stock & forend, half octagon. 10X Mogg scope, original, excellent $50.00. BSA Martini, .22 LR, altered stock, Beavertail forend, v.g. in and out $100.00. Remington Hepburn 2R Lovell, barrel lined by Johnson, v.g. $65.00. Krag 2R Lovell, single shot, heavy barrel, blocks, Bishop stock, v.g. $65.00. Weaver K4, excellent $37.50. K2.5, v.g. $30.00. HiWall—25-35 by Sedgley, 10X scope w/ dot, excellent $125.00. Hi-Wall, 30-40, takedown, new barrel, 12" twist, 438 Lyman, 102 rear, aperture, front, excellent $125.00. H&R Sportsman, .22 v.g. $37.50. Commercial Mauser sporter, 8mm. ribbed barrel, flat bolt, set triggers, engraved, perfect $125.00. Hi-Standard, 6-¾", holster, excellent $50.00. German and American scopes of all kinds, write your needs. Bob Lockard, 1511 Louisa St., Williamsport, Penna.

.22 CAL. BULLETS

Lubri-Kote or Copper Jackets, 42, 50, 55, 60, 224 only; 65, 227, 42 and 50 Round or Sharp Point Lubri-Kote, $2.60; Copper, $2.50. Postpaid. Sample free.

MILO HILL Caledonia, Ohio

AFRICAN HUNTING

THE STAR HUNTING CO.

P.O. BOX 97, MOSHI.
TANGANYIKA TERRITORY,
EAST AFRICA

GAME

Allowed to be killed on Major License
4 Lions
10 Buffalo
1 Leopard
1 Cheetah
10 Wildebeeste
20 Zebra
2 Greater Kudu
2 Lesser Kudu
2 Sable
2 Eland
12 Reedbuck
20 Duiker
10 Kongoni
2 Hippopotamus
8 Waterbuck
2 Oryx
20 Bushbuck
3 Roan
4 Grant's Gazelle
12 Thompson's Gazelle
8 Impalla
Etc. etc etc.

FEES

2 persons hunting together. $2,500 per month.

Fees include. Professional Hunter, Safari expenses, Food, Transportation, Tents, Bedding, Camp Kit. Servants, Trackers, Skinners, and the preparation of your trophies in the field.

Packing and shipping your trophies extra. Average costs of this from Moshi to U.S.A. port is about $400.

GAME LICENSES extra.

Visitor's Major	$200
1st Elephant	80
2nd Elephant	120
1st Rhinoceros	40
2nd Rhinoceros	40

NO CLOSED SEASONS

Bookings all through the year except for March, April & May due to rains. All licenses are valid one year.

Write for lists of recommended clothing, firearms, ammo and photographic equipment. *Cables: "Palmer-Wilson, Moshi"*

THE DRAMATIC PUBLISHING COMPANY
59 E. Van Buren, Chicago, Ill.

Dec. 9, 1947

Dear Mr. Palmer-Wilson:

We've been meaning to write and thank you once more for the grand safari we had in Tanganyika.

Of course, the bag you obtained for us was magnificent—not only the fact of so many specimens, but that many were exceptionally good ones. It seems incredible that we could have shot three elephant, four buffalo, a rhino, two lion, a greater kudu and all the other antelope in such a short time.

All our pictures and motion picture film have now been developed. They turned out far better than we dared hope, and I'm grateful now for your constant attention to maneuvering us into positions where we could photograph the animals with good backgrounds behind them. Next trip we'll spend much more time with the camera.

This Chicago weather has both my wife and me down with colds, and we think very often of the pleasant safari life. I can't recall being uncomfortable one day out there, but then you English have quite a different conception of a hunting trip than we do here in the States. We'd never dream of taking, as you did, a bathtub, sheets, tablecloths, dishes, silverware, and the like into the bush. In any case, we're glad you did. The animals gave us enough excitement, and an especially comfortable camp was a real asset.

We want to thank you for making our safari such a perfect success.

Sincerely yours,

(Signed) Christopher Sergel

N.R.A. Members:

NEW PERSONAL INSURANCE

- **Reimburses you for medical expenses up to $500 for each accident, regardless of cause, (Occupational accidents excepted).**
- **Pays each claim promptly upon receipt of bills.**
- **Saves you at least 25% on premium.**
- **Send only $8.75 for a full year.**

N.R.A. Clubs: LIABILITY INSURANCE PROTECTION

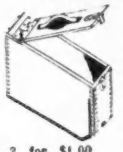
- **Protects club and its members from possible assessment due to any accident arising from club's activities.**
- **Pays up to limit you choose ($10,000 minimum) if club is proven liable.**
- **Provides this broad protection exclusively for N.R.A. clubs at minimum cost.**

Write for particulars regarding these and our other insurance services, including Fidelity Bonds and All Risk Gun Insurance. We specialize in serving N.R.A. members and member clubs.

CARPENTER INSURANCE SERVICE

1212 19th Street, N.W. Wash. (6) D. C.

AMMUNITION BOXES



Brand New Oak Ammo. Boxes! Dovetail construction, web strap, hinged lid with spring locking hasp. Sturdily constructed. 12"x 8"x4". Weighs 5 lbs. Handloaders, Target and Skeet Shooters finding numerous uses at 10% of their original cost. Priced F.O.B. here. Specify P. Post. Express or Freight. Charges Collect. No C.O.D.'s.

3 for $1.00
5 for $1.50
10 for $2.60

Supply Limited—Order Today.

WARWICK GUN SHOP
DENBIGH, VIRGINIA

RIG NO MORE GUN RUST

Yes—you too can end rust worries once and for all with RIG! It's the SURE protection for rifles, pistols shotguns, even in moist, tropical climates and salt sea air. Eliminates frequent cleaning. 2 minute application after day's shooting is all you need. Guns "RIGGED" for storage stay good-as-new for years. Buy RIG at your gun store. Tubes 25¢, ½ lb. cans 50¢. Write for new Free Gun Care Guide today!

RIG PRODUCTS COMPANY, OREGON 2, ILLINOIS

Choosing a Scope Mount No Longer a Problem!...

PRICE COMPLETE $17.50

EXTRA BASES $4.50

Choose ECHO the MOUNT with 9 IMPORTANT FEATURES

1. Low scope position . . . in exact center for normal sighting.
2. Dovetail side-anchor, grooved along the entire length that fits into correspondingly shaped base.
3. Powerful recoil-absorbing, double-locking lugs. . . These lugs are tightened or loosened without the aid of tools or coins.
4. Scope slips into place in a few seconds, and the mount positively goes back to zero every time.
5. Quickly detachable to permit the use of metallic sights, and for safety in storage and transportation.
6. No loose parts to lose . . . base firmly mounted on the rifle.
7. Machined to fit specific rifle models.
8. All Echo brackets are interchangeable with any Echo base, thus permitting the use of one scope on several rifles.
9. Light weight (weighs only 4½ oz.) yet, sturdy enough to stand the gaff of excessive recoil.

Our achievements in the principles of simple design and construction give you a *higher quality* mount at a lower-than-average cost. And that's only part of the story . . . for the rest see it at your dealers or write for free information.

E. C. HERKNER COMPANY
DEPT. A-3 LITTLETON, COLO.

MEMBER

AMERICA'S SUPREME GUN BLUING PROCESS

BLU-BLAK SERVICE

THE SIGN OF BETTER TIMES FOR GUNSHOPS AND GUN OWNERS

There is no gun shop so well positioned that it cannot benefit by offering this better gun bluing service. As hundreds of gun shop owners have told me "A BLU-BLAK shop has no competition." Put *your* shop in this enviable spot protected by a BLU-BLAK franchise.

Your order sent today will protect you if your community is still open franchise territory. Make your selection of needed supplies from the following price list.

1 unit BLU-BLAK, makes to 5 gals. . . $16.50
2 units BLU-BLAK, makes to 10 gals. 31.00

PREKLEEN, non caustic, makes to 20 gals.—$ 1.00

PeeDeeQ, rust, old blue remover, re-bluing accelerator, 1 pt. (makes 3 pts.) ——— 1.00

THERMOMETER, dial, unbreakable, the best also low-cost type ——— 2.50 1.50

RI-FO, finishing oil, highly rust inhibiting, a "must" for fine appearance, 5 gals.—— 15.00
1 gal. $3.50 — 1 qt. $1.00.

RUBBER GLOVES, 14 inch, fine grade, real "buy" ——— 1.50

APRON, black plastic—saves clothes——— 3.50

FACE SHIELD, plastic. Your eyes are worth 2.25

BUFFING COMPOUNDS in aluminum tubes. Users say "best we ever used." Comes in 150/ coarse, 240/ medium, 450/ fine and 550/ super-fine, price per tube ——— 1.00
In dozen lots, price per tube ——— .90

FELT WHEELS—White—Best Grade
Dia. Face Arbor
6" x 1" x ½" Soft $3.00; Med. $4.00; Hard $4.00
8" x 1" x ½" Soft $4.50; Med. $6.00; Hard $6.75

MUSLIN BUFFS—Soft, for high lustre—High Count
Dia. Face Arbor
6" x 1" x ½" concentric stitched—Each $1.60
6" x 1" x ½" loose ——— Each 1.40
8" x 1" x ½" concentric stitched—Each 2.75
8" x 1" x ½" loose ——— Each 2.40
10" x 1" x ½" concentric stitched—Each 4.00
10" x 1" x ½" loose ——— Each 3.60

SUPERBA Stock Finish "Perfect," "Wonderful" "Superb" say Users. Comes in Walnut, Cherry and Clear. Fastest on record. 4 oz. $1.00; 8 Pints for $6.00; Gallon $14.00.

MICRONOIL GUN-LUBE N.R.A. record of 91 days in brine solution. Matchless lubricant.
1 doz. 2 oz. dropper bottles——— $3.60
1 doz. 4 oz. bottles——— 7.20
Special, bench unit, 1 pt.——— 2.00

BORE KLEEN, New and unique cleaner and rust inhibitor, 2 oz. bottle ——— .35

TANKS, Professional Unit of 6. Unequalled. 8" x 8" x 40", complete with burners to suit.

The NEW Third Edition of the BLU-BLAK INSTRUCTION AND MATERIALS BULLETIN is now ready. It's FREE TO GUN SHOPS—25¢ to all others. Send for *your* copy. ***H. TOM COLLORD, Pres.***

PROTECTIVE COATINGS, INC.
Box 3985-AR **Detroit 27, Mich.**

LEUPOLD RIFLESCOPE

The Finest Sight a Hunter Can Buy

6½ ounces of the finest hunting sight money can buy. Streamlined tube . . . coated lenses . . . positive click adjustments.

See your Dealer or write for descriptive folder.

LEUPOLD & STEVENS INSTRUMENTS
4445 N. E. GLISAN
PORTLAND, OREGON

ZEISS

FEATHERWEIGHT BINOCULARS
6X30 — 8X30
center focussing
COATED OPTICS
The Finest Zeiss Ever Made
BIG TRADE-IN ALLOWANCE
Checked & Guaranteed by Us
MIRAKEL REPAIR CO.
MOUNT VERNON NEW YORK

AMMUNITION —

32-40, 32 Spec., 38-55 ——— $2.75 Bx
32-20, 38-40, 44-40, (Bx 50) ——— 4.00 Bx
High Vel.—Soft P. or Hollow P.
8 MM Mauser (SX57J) ——— 4.00 Bx
9 MM Luger, (Bx 50) ——— 4.50 Bx
38 Spec.—Hollow Point, (Bx 50) ——— 2.75 Bx
Many other custom loads. Write your needs.
GUNSMITHING —
Relining: We are specialists in the fine bluing of guns. Stock Finishing, Restocking, Bore Polishing, Military Rifle Conversions. Let us know your troubles. New and used guns—Loading supplies of all knds.
Write for Complete List
COLD RIVER GUN SHOP Alstead, N. H.

If an INVENTOR

believes he has an invention, a search of the most pertinent prior U. S. Patents should be made and a report obtained relative to its patentability. Write for further particulars as to patent protection and procedure and "Invention Record" form at once. No obligation.

McMORROW, BERMAN & DAVIDSON
Registered Patent Attorneys
251-Y Victor Building Washington 1, D. C.

COLT .32 AUTO GOOD $22.50, SAVAGE 32 good $19.50, Beretta 7.65 plum finish v.g. $29.50, P.38 good $22.50, Walther PPK 7.65 v.g. holster $35.00. Onondaga Gun Supply, 211 Montrose Avenue, Syracuse, New York.

FREE PISTOL, GERMAN .22 L.R. 9-¾" BARrel, excellent $45.00. Beretta 9mm. uses Colt .380, new, $40.00. Goerz 8 power hunting scope, excellent $100.00. S. R. Hinds, 5821—MacArthur Blvd, Washington, D. C.

EDWARDS V8 VARMINT SCOPE NEW, $70.00. A5 Winchester scope Lee Dot good $30.00. G311 Bond mould $8.00. 1000 172 F.A. bullets .02. 52 Winchester Standard Marksman Olympic rear, G.H. front, perfect $100.00. 06 Springfield sporter perfect in v.g. out, $75.00. Case 37 F.A. clean $75.00. 513T perfect $45.00. O'Hare mike $3.00. Ted Holm, 1524 Clark, Des Moines, Iowa.

SPRINGFIELD N.M. #1477103 WITH SCOPE blocks, excellent out good in, 85 rounds 1939 N.M. $70.00; Unertl 4X small game scope, with mounts and bases, perfect, $35.00; M218 scope, excellent, $14.00; P.38 Walther, good, $35.00; Winchester 75 with Redfield rear, Vaver front, excellent in, good out, $45.00; 10x50 Jap binocular, with case, excellent, $66.00; Unertl tube sight with mounts and bases, perfect, $20.00; Bausch & Lomb 8x30 Zephyr binocular, perfect, $150.00. Robert H. Martin, Easley, So. Car.

BELGIAN MADE BROWNING AUTOMATIC shotguns all available models in stock overunders soon. Browning Folder free. J. L. Vincent, Sporting Goods, Aud, Missouri.

AMERICAN RIFLEMAN, SINGLE COPIES .40¢ postpaid per year $4.50 postpaid. A. S. Huser, 419 Second Avenue West, Kalispell, Montana.

WINCHESTER LO-WALL HORNET, SCOPE blocks, v.g. $45.00. Unertl 6x SG&T, coated, excellent, $34.00. Mossberg spotshot, new, $19.50. M. O. please. A. W. Goris, 1615 No. Columbus, Tucson, Arizona.

AMERICAN RIFLEMAN 1934 through 1938 $10.00, 1944 through 1947 $8.00. Martin Ruedger, Carson City, Michigan.

CHAMPION REGISTERED DACHSHUNDS, American water spaniels, puppies, $35.00—$50.00. Correspondence invited. Paul Bovee, Bancroft, Wisconsin.

COLTS .38 SPECIAL POLICE POSITIVE revolvers, 4" barrels, newly reblued, good throughout, Franzite ivory or walnut grips, $35.00 each. McCool Gun Company, Henryville, Penna.

ORDER THAT NEW ARMS BOOK ON THE "Baker's Dozen Plan"! Thirteen new books for the price of twelve. Twelve single purchases may be made within twelve consecutive months. The Thirteenth book of your choice—Free—to the amount of the average price of your twelve purchases. This plan applies to the purchase of new arms books of all publishers. Other premiums of merit—more to be announced. Order from—Ray Riley—Arms Collector Service. Serving the Shooters and Collectors of America with Arms Books—Old and New—6844 Gorsten St., Philadelphia 19, Penna. "You will like the service." tf.

NEW LIST OUT. MODERN-ANTIQUE FIREarms, scopes, binoculars, ammunition. Over 2000 military-sporting items. Also, fishing tackle, edged weapons, powder flasks, horns. Send 35¢ in coin. Morton's, 40 Fulton St., New York 7, New York.

7 SMITH & WESSON MILITARY AND POlice, .38 Special, square butt, 4" and 6", blue, latest models, never shot, as new, each $45.50. Hudson R-52 Warren Street, New York 7.

WINCHESTER HI-SIDE, .25 KRAG, SINGLE set, 1¼x26 Buhmiller barrel, checkpiece stock, BT fore-end, checkered, scope bases, no sights, perfect. Dies, cases. $97.50. Dexter, 65 Weybosset, Fall River, Mass.

FOX STERLINGWORTH, 12 GAUGE, 30, choke, modified. Beautiful excellent double; 300 shells, case, $100.00. Marlin carbine 30-30, case, cartridges, very good, $60.00. Harold Brott, Stillwater, Minn.

.401 WINCHESTER SELF-LOADER. EXCELlent except cracked forestock. 75 cartridges, 3 clips, case, $100.00. H. C. Waterer, Jr., Tchula, Mississippi.

M70—257 FACTORY CASE, $120.00. BINOCulars, type EE, B&L 6x30, very good $40.00. E. C. Wilson, Rt. #1, Boise, Idaho.

WANTED—FINE FOREIGN GUNS
ANTIQUE OR MODERN
Describe and Price Your "Liberated Beauties."
MILLER BEDFORD New London, Ohio
"World's Rarest Guns"

CUSTOM 300 MAGNUM BULLGUN. CUSTOM stock by Wagner, Enfield, fired less than 100 times, excellent, Easton dies, $200.00. Fecker 12x 1-5/8", used several months, bluing slightly scratched several places, excellent, $75.00. Life Member. Bob Wallack, 601 Chester, Moorestown, N. J.

COLT SINGLE ACTION FRONTIER BARrels, brand new: 32-20 W.C.F. 4¾", 5½", 7½" nickel; 38-40 W.C.F. 4¾", 7½" blue, 7½" nickel; 44-40 W.C.F. 4¾" blue, 7½" nickel; .44 S&W special 5½", 7½" nickel. All at $9.95 each. Hudson, R-52 Warren St., New York 7.

REMINGTON 37, TITHERINGTON H.B., J.B. Smith trigger Myrtlewood prone stock. Marble-Goss rear, hooded front. 1-3/4"x20 power Fecker. Condition excellent, $225.00, stamp for photo. J. Dobrusky, 340 Portola Drive, San Mateo, Calif.

GERMAN SCHUETZEN RIFLE 9.3x72 CALIber elaborately engraved and checkered cheekrest stock, good condition, $225.00. Capitol Sporting Goods, 52 Green St., Albany, N. Y.

COLT LIGHTNING 44-40 VERY GOOD CONdition $60.00. Want 16 gauge Brass shells. Lyman 48S. O. A. Deter, Box 768, Yreka, California.

ATTENTION, RELOADERS: PACIFIC SUPER Reloading tools, $33.50; Standard, $27.00. Primers, $5.75M. Powder, $1.75 lb. Plenty speer .270 caliber 130 gr. bullets; 8mm. 170 gr. $4.20C. Other calibers and Sisk bullets in most weights in stock. New Guns: L.C. Smith field grade, 16 ga. double, 28" F&M, $89.00. Marlin 39A .22 lever action. $47.00. Hi-Standard HDM .22 automatics, $47.00. Colt .45 and .38 Super automatics, $60.00. Stamp appreciated. Joe Ivy, 910 Burlington, Dallas, Texas.

MAUSER 270 MAGNUM, CUSTOM STOCK K2.5 hinged floor plate dies components excellent $175.00. Mauser 270; K2.5 custom stock dies components excellent $140.00. Mauser 228—Turner mount 440 Lee Dot dies excellent $140.00. 270 Mauser 330 walnut stock excellent $120.00. Have more bargains no list will trade. Life Member. J. M. Hoffman, 1200 No. Date, Plainview, Texas.

S.W. .22 MASTERPIECE, NEW $65.00, S.W. .22 perfect $55.00. 52 Winchester standard barrel Lyman 48J. 17A, excellent, $65.00. Winchester model 12-12 gauge, rib barrel Weaver choke, recoil pad, excellent $85.00. S.W. 32 top break excellent $27.50. P.37—7.65mm. new, $39.50. Belgium .22 Free Pistol engraved, excellent $75.00. Argus spotting scope 12.8x on Army measuring devise, micrometer adjustments, new, boxed $49.50. Luger 9mm., new with holster, $65.00. Fred Lawson, Box 176, Dassel, Minnesota.

MAUSER 8x57 CIRCASSIAN STOCK BEAUtifully checkered, set triggers, light engraving, Hensoldt Dialyt scope. Custom built, excellent condition, not fired since conversion, $250.00. No trades. Ernest Albright, Hermon, New York.

PRIMERS, WESTERN #8½, $6.00 THOUsand, W330-6X-Litschert, excellent, $40.00, Winchester M12, 16 ga., full, $75.00, new, 8mm. sporter, 1917 action, $45.00, good. James West, 515 Penna. Avenue, Charleston, W. Va.

.22 HORNET-SAVAGE 23D, WEAVER 29S, Litschert attachment, excellent in and out, 100 rounds, $110.00. N. R. Peterson, 2931 1st St., N., Arlington, Virginia.

NEW MODEL 31 REMINGTON PUMP SKEET gun, 12 gauge, 32" barrel choke $106.70. New .38 Special Smith & Wesson M&P revolvers 2" & 4" blue $56.50. G. L. Adams, 182 Forest St., Spartanburg, S. Car.

REMINGTON AUTOMATIC HAND TRAPS, $3.85 each. Hudson, R-52 Warren St., New York 7.

CAST BULLETS: .38 SPECIAL 146 GRAIN wadcutter 158 grain conical—9mm. 125 gr. Luger point sized and lubricated $8.50 a 1000. .38 Special cases fired once, cleaned, for small primers $4.50 a 1000. A. Cutillo, 1-19 Hartley Place, Fairlawn, N. J.

STRINE SIZER AND LUBRICATOR STILL available at $22.00. Circular free. Strine Arms Company, Cardington, Ohio.

LUGER 9MM. 8" BARREL $35.00. GOOD condition. W. J. Kilgore, Box 207, Durham, New Hampshire.

ONE NEW JOHNSON 220 BARREL WAFfenfabrik action nice stock $135.00. One commercial 9mm. rifle, 2 boxes factory $100.00. S. Erickson, Oil City, Penna.

MAUSER GUARD SCREWS

—short or long, 50¢ each. Discounts on large orders—any quantity available!

C. R. PROVOST, 112 Charles St., St. Paul, Minn.

Pachmayr LO-SWING SCOPE MOUNT

MOUNTS LOW ON RECEIVER

Low . . . where a scope is easiest to use . . . *swing it* to side for instant use of iron sights when needed in bad weather. Precision made throughout . . . swings on hardened steel cones . . . unconditionally guaranteed. Fits all leading rifles.

$20 at Your Dealer

INSTANTLY FOR USE OF IRON SIGHTS

The best by actual test! You be the judge!

PACHMAYR Recoil Pads

for shotgun or rifle

Made of Neoprene... not affected by oil, solvent, water or weather. Two sizes... 2 colors. Unconditionally Guaranteed.

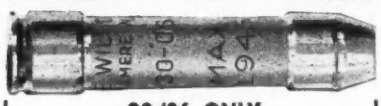
$3.25 at Your Dealer or Order Direct

Investigate the many superior advantages of the Lo-Swing Scope Mount at your dealer today or write for free literature.

PACHMAYR GUN WORKS

1220 So. Grand Ave., Los Angeles 15, California

HEADSPACE GAGES



.30-'06 ONLY

(Also correct for .270 Winchester)

Lengths:—	Standard	Intermediate
Minimum	1.940	1.942
Maximum	1.946	1.944
Field Gage	1.950	1.948

PRICE $6.00 each

Mailing 8¢ each

L. E. WILSON

Box 636 Cashmere, Washington

SHOOT *Indoors*

with the

Johnson target gun

ACCURATE—military sights, adjustable for elevation and windage, give you the same sight picture as a military rifle. The Johnson Target Gun, from a bench rest, will put five rounds in a quarter-inch circle at forty feet.

FOR YOURSELF—the Johnson Gun provides convenient, eye-sharpening practice. You can set up gun and backstop in any room in the house with absolute safety.

FOR TEACHING—the Johnson gun is ideal. Balance, a crisp trigger squeeze, a good sight picture, absence of recoil, make it the perfect "training aid" for women and children.

Johnson gun, complete with

- Paper targets
- Metal targets
- Pellets
- Propelling bands
- Extra pellet carrier
- Target frame and backstop

$15 postpaid

N. J. ANTHONY
1115 Seventeenth Street, N. W.
WASHINGTON 6, D. C.

I enclose $ ..... Send me, postpaid, ... Johnson Indoor Target Guns.

NAME .....
(Please Print)

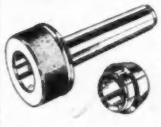
STREET .....

CITY AND STATE .....

SOUTH BEND

NEW ADJUSTABLE COLLET BUSHING CHUCK—

provides an accurate method for mounting centerless armature shafts and similar parts in a lathe. Use in either head or tail spindle. The brass collets are adjustable for running or driving fits. Chucks supplied with 3 collets: 9/16", 5/8", and .637" capacity. Extra round collets, 1/4" to 1" by 16ths. $1.00 each.



Chuck with No. 2 shank **$8.95**
Chuck with No. 3 shank **$9.45**

SOUTH BEND LATHE WORKS 452A E. Madison St. South Bend 22, Ind.

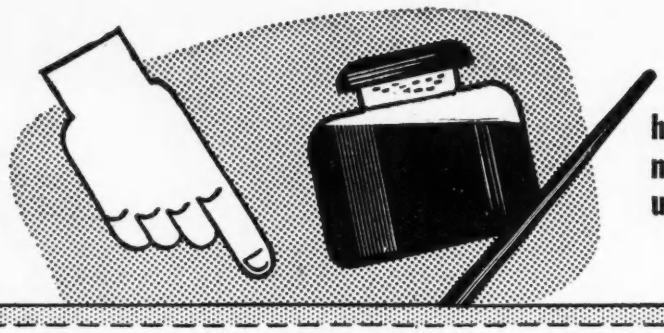
SPRINGFIELD ENFIELD • MAUSERS

REBUILT INTO BEAUTIFUL SPORTERS

New Walnut Sporter Stock, Cut off & Recrown Barrel, Polish & Reblue, Ramp Front & Peep Rear Sight Furnished & Mounted, $60.00 & UP: Extras—Cut off Enfield Ears—$6.00. Furnish & Mount Sling & Swivels $8.00.

Write for PRICES on Your Remodeling IDEAS.

A. J. MERICKLE N.R.A. Member Minocqua, Wis.



have you renewed your NRA membership . . . or signed up that new member . . . .

Please enroll me as an active member in the National Rifle Association, including a subscription to THE RIFLEMAN.

I certify that I am a citizen of the United States; that I am not a member of any organization which has as any part of its program the attempt to overthrow the government of the United States by force or violence; that I have never been convicted of a crime of violence, and that if admitted to membership I will fulfill the obligations of good sportsmanship and good citizenship.

SIGNATURE

I enclose remittance of ☐ $5.00 for 2 years ☐ $3.00 for 1 year ☐ New ☐ Renewal

(PLEASE PRINT)

Name _____ *Age* _____

Address _____

City _____ *Zone* _____ *State* _____

ENDORSEMENT FOR NEW MEMBERS

I endorse the applicant as a good U. S. citizen and sportsman.

Endorser _____

Address _____

☐ NRA Member ☐ Public official, including U. S. Armed Forces Officers.

NATIONAL RIFLE ASSOCIATION

1600 RHODE ISLAND AVENUE, N. W., WASHINGTON 6, D. C.

GUNS! AMMUNITION!

• Buy Now •

Smith & Wessen .38 Spec. M&P Blue, 2", 4", 6"	56.50
Colt .38 Super Auto., Latest Factory Model	65.00
Colt .45 Auto., New Latest Factory Model	65.00
Hi-Standard .22 Auto., HDM, 4½ or 6¾"	51.17
Marlin 39A Lever Action, .22 cal. 24" Repeater	50.45
Mossberg Model 151M, 22 Auto.	30.90
Mossberg 46M Bolt Action rifle, 22 Shot Repeater	27.95
Mossberg Rifle Scopes, 4M4 5M4 8M4	9.95
Mossberg 29 Power Spotting Scope	22.35
Crosman S.S. Air Rifle, .22 caliber	19.80
Crosman Air Rifle 20 Shot Repeater, .22 cal.	22.60
Crosman S.S. Bulls Eye Air Pistol, .177 cal.	19.80
Crosman Pellets .177 cal., per M. $2.50, .22 cal.	3.00
.41 Swiss rim fire lead cartridges, per 100	10.00
.303 British cartridges .174 gr., M.P., per 100	7.50
French 7.5 M/M MAS rifle cartridges, per 100	15.00
.38 Colt Super Auto, ammo., per 100	5.80
.25/20 Win. single shot ctges, gr., S.P. per 100	7.00
Belgian Mauser 7.65 m/m rifle ctgs., M.P. per 100	12.00
Mauser 7.63 m/m (30 cal.) pistol ctgs., per 100	6.30
Winchester .351 S.L. ctges, S.P., per 100	8.40
Winchester .32 S.L. or .35 S.L. ctges., S.P. per 100	8.00
.38 Smith & Wesson or Colt Spec. 158 gr. lead, per C	5.20
.218 Bee ctges, 46 grain mush, bullet, per 100	6.60
Remington bbls for 12 ga., Auto. S.G., 26" Imp. Cyl.	26.75
Rem. barrels for 12 ga. Auto. S.G. with Cutts Comp.	36.75
Duraluminum Rods for rifle, pistol or S.G. each	1.50
Magazines 15 shot for M1 Carbine, 30 cal., each	1.50
Barrels for 45 Colt model 1911 Auto	5.50
Magazines, Colt .45 Auto Model 1911	1.65
Barrels Colt S.A. 32/20, 38/40, 44/40 W.C.F.	9.95
Barrels for S&W 1917, 45 caliber, 5½"	7.50
Magazines Hi-Standard, A.B.E. HDM, each	3.00
U.S. Kerr Web rifle sling straps, 1¼", each	1.00
Parts for 45 Colt and Model 1917 S & W	See List

Send Stamp for list—GUNS—AMMO, ETC.
GUNS-AMMO not listed, price on request

All prices subject to change without notice

HUDSON SPORTING GOODS CO.
R-52 Warren St., (*No C.O.D. Orders*) New York 7.

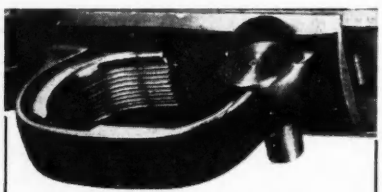
The CLINTON Gas Engine

FREE FOLDER

2 H.P.—$59.50 3 H.P.—$74.75

● Complete, compact, dependable, 4 cycle, single cylinder, air cooled gasoline engines—by world's largest 2 H.P. producer. For power tools, saws, farm machinery, pumps, boats, bikes, etc. A penny postcard brings full information. Im'dt. delivery. Write today!

CLINTON ENGINE CO.
1613J E. Jefferson, Detroit 30, Mich.



SAFETY large button for Winchester model 12. Specify whether right or left hand..... **$2.50**

TRIGGER SHOES for most rifles and hand guns..... **$2.00**

Order direct or through your dealer

HARVEY E. HENSHAW, 818-820 Oakwood St., Pittsburgh 21, Pa.

"QUOTES"

"You will continue to receive an every-month ad on RANDALL MADE KNIVES, for I have found that readers of *The American Rifleman* appreciate quality-made products."

W. D. RANDALL Jr. Box 1988-R, Orlando, Florida

NEW SPRINGFIELD BOLTS, STRIPPED, 30-06 caliber, $2.50 each. Kerr web slings, 1¼", new, with slightly rusted buckles, $1.00. Hudson, R-52 Warren St., New York 7.

WINCHESTER MODEL 86 LEVER ACTION 10 ga. shotgun, excellent. Military model heavy barrel hi-wall Winchester tapped for scope mount, excellent each $30.00. Allen & Wheelock .42 R.F. rifle, good $20.00. U.S. Springfield Officer's model 45-70 excellent. Colt 55 revolving rifle, good each $70.00. Col. L.R. Talbot, 900 Hudson Avenue, Takoma Park, Maryland.

S&W .357 MAGNUM, 6½" BARREL, KEARsarge stocks, excellent plus $110.00. Monte Carlo binoculars 8x30, new, never used, Kodak style case $45.00. S&W .22 caliber perfected model 10" barrel, custom stocks, excellent $45.00. John F. Reel, 426 Broadway, Chico, California.

WINCHESTER 52 STANDARD 4X WOLLENsak scope excellent $115.00, Savage 99 .303 good $60.00, Lefever 20 ga. single good $20.00, Luger 9mm. good $35.00, 9mm. Luger ammo. $4.25 per 50, scopes, mounts, sights, cleaning accessories. Stamp for list. LaVerne Davis, 2940 North Avenue, Niagara Falls, New York.

MARLIN 39A .22 LEVER ACTION, NEW $50.00 prepaid. Colt Super .38 & .45 automatics, new $65.00 prepaid. Springfield .45-70 26" reblued, Lyman tang, ramp front, built up stock, 3 boxes, good or better $25.00. New Weavers K2.5 $37.50, K4 $45.00, K6 $48.50, K4's almost new $40.00. George Bambas, Sporting Goods Co., Dept R, Richmond, Illinois.

MI 1922 HORNET, NEW BARREL, 100 rounds, $85.00. Write for complete details. All letters answered. A. M. Riedley, 1705 West Jefferson, Louisville, Kentucky.

UNFIRED .270 ACKLEY MAUSER G&H mount, custom stock, altered low $125.00. R. H. Adams, Mt. Sterling, Illinois.

M52HB, LYMAN #48-77, PERFECT, $87.00. Lyman Alaskan, new, $55.00. Fecker 6x¾", v.g. optically perfect, $36.00. B&M #26 tool, .25, .270, .30 dies, v.g. $13.00. Ideal #3 tool, .45 Colt, perfect $7.50. Redfield Jr. M70 Alaskan, perfect, $11.00. Redfield Jr. M63-K2.5, perfect, $11.00. W. H. Janssen, Nokomis, Illinois.

8MM. MAUSER RELOADS $15.00 HUNDRED: In your cases $10.50; reloading all rifle calibers: Low prices, fast service. D. A. Lanagan, Randsburg, California.

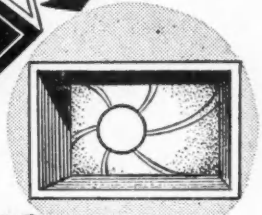
WINCHESTER M21, 20x26, IC/F, SST, AUTO ejectors, Beavertail forend, pistol grip, very good, $185.00. W. P. Haller, Ashland, Kentucky.

MOSSBERG SPOTSHOT, 20X SPOTTING scope, perfect, $18.00. Hudson, R-52 Warren St., New York 7.

WINCHESTER 70, 300 SAVAGE CALIBER, with K-4 scope, Weaver mount, all new $185.00. Rex Shaner, Geneva, Nebraska.

NEW UNIVERSAL PRISMATIC BORESKOPE

You SEE CLEARLY the smallest particle of dirt, scar or blemish in the bore.



ONE SIZE FOR ALL FIREARMS

- REVOLVERS • AUTOMATICS
- ALL TYPES OF RIFLES
- ALL TYPES OF SHOT GUNS

No Sportsman or Gunsmith can afford to be without one.

$1.85

AT ALL LEADING SPORTING GOODS AND HARDWARE STORES

ACCURATE BORESIGHTING IN A JIFFY

Just insert the prism end of this precision built, pocket-size, boreskope into the breach of any firearm and you can immediately check the condition of the bore. Every part of it will be clearly and accurately revealed to you.
Carry it in your vest pocket for instant use. Use it at home, on the range or in the field. The prism lens slides in and out of the protective plastic case.

If your dealer cannot supply you, order direct.

Manufactured by

WOLFF & MUNDY
Gunsmiths
5 S. 69th STREET UPPER DARBY, PA.

ALL LYMAN RELOADING TOOLS, TELEscopes, sights in stock. Components Sisk bullets. Reloading all .22 calibers. Stamp appreciated. M. Pecha, Acushnet Avenue, Worcester, Mass.

SPRINGFIELD SPORTER, 30-06, #1354759 nickel steel bolt, Lyman 48, Terhaar ramp, beautiful Bishop stock, narrowed trigger guard, perfect $125.00. Model 86 Winchester, .33 caliber, excellent, shells, model 511 Remington 22, new $24.50 M.O. N.S. Chretien, 61 Locust St., Riverside, Rhode Island.

SAVAGE 23D HORNET, LYMAN 48Y, MERIT disc, 72 rounds ammunition. Excellent inside, very good out, $59.00. H. D. Beman, 819 Milledge Road, Augusta, Georgia.

B&L 7x35 ZEPHYR COATED, PERFECT $155.00. Walther P.38 holster, extra clip near perfect, $42.00. Wendell Kalen, Friley Hall, Ames, Iowa.

SMITH SPECIALTY GRADE 12-32, V.R; sights; G.M. SST; A.E; 14x1½x2¼ stock; pad; serial R.E. 82,093 excellent $220.00. B.E. Busse, Amboy, Minnesota.

COMMERCIAL MAUSER, 7.5x55, DST, 22" ribbed barrel, scope mounts, flat bolt, lever floor plate, pistol grip stock, v.g. $87.50: Winchester M-64 .219 Zipper, excellent, side mount Gerard 3X scope, good, sling, 80 cartridges, $98.00. Mauser rifles, before 1943, $30.00, after 1943 $25.00, complete good. 7.7 Jap rifles, good, bores excellent $17.50. William Boggs, 1783 E. Main St., Columbus, Ohio.

12x50 SCHNEIDER-GOTTINGEN BINOCUlars, very good $60.00. 1000 M2 150 grain bullets $10.00. 130 25-20 S.S. cases, NMNC $3.00. Mashburn Bee on 44½ Stevens nickeled and engraved action, maple stock, new out, very good in, $100.00. Carolyn 4-8x scope, poor to fair, Lyman ¼" mounts, $10.00. Game getter, fair $17.00. Modern Bond tool, dies for Hornet, Bee, Roberts $25.00. .220 Swift Bull barrel by Johnson on hinumber Springfield action, new, $75.00. I need bull pup or single shot Zipper. Denis J. Duhig, Grasslands Hospital, Valhalla, New York.

MAUSER 98 ISSUE, MATCHING NUMBERS 1944 good $25.00. Colt .45 auto reblued plastic grips, extra clip, box ammunition good $42.00. .38 H&R American revolver, very good $20.00. Arthur Lhotka, 1642 Ridgeland Avenue, Berwyn, Illinois.

SCOPE ATTACHMENTS

Finest 1¼" hard coated lenses. Make any scope a target scope. Will not change the point of impact as lens slides instead of revolving. Power of any scope can be doubled. Install it yourself on most hunting scopes made in U.S. Price $24.75. Write for information on other scopes. *We are still making our standard attachments at $16.00.*

EDWARDS SIGHT & OPTICAL CO.
UNION CITY, IND.

See your dealer or order direct

JAP AMMUNITION

31 cal. or 7.7 180 gr. S.P. 20 rds. $4.50, or 169 gr. gas check, $4.00. Jap .256 and 6.5 Italian loads 120 gr. S.P. 20 rds. $5.00, or 160 gr. F.M.P. or 128 gr. gas check $4.50. 8x57 Mauser 170 gr. S.P. 20 rds. $4.00, or 180 gr. gas check $3.50. 8x57 Rim same loads as above 50¢ more 20 rds. Specify second choice on type bullet. We load all American calibers. 8MM unprimed cases $6.00 per 100. 31 cal. or 7.7 unprimed cases $7.00 per 100. .256 Jap & 6.5 Italian unprimed cases $10.00 per 100. 8MM 180 gr. gas check bullets. 31 cal. 169 gr. gas check bullets. 6.5 128 gr. gas check bullets $2.50 per hundred. Mfg. excise tax included. Dealers inquiries invited.

HANSON'S CUSTOM LOADING, Bonner Springs, Kansas

BRAND NEW COLT BARRELS, 25 AUTOmatic. $5.00. .38 Pocket automatic, $7.50. 380 automatic, $7.50. .38 Super automatic, $8.50. Magazines, 25 automatic, $2.50. .38 Military model, $3.50. .38 Super automatic, $3.00. Hudson, R-52 Warren St., New York 7.

NEW MODEL 70 HORNET, PERFECT, S-4 scope Stith mount, sling, $175.00. A.D. Shaffer, 512 E. Main St., Ventura, California.

REMINGTON 32-20 PUMP MODEL 25, GOOD inside fair out 40 shells, $28.00. E. Ham, Box 28, Madera, California.

SHOOTERS NEEDS

NEW GUNS

Colt Official Police 22—6"	$65.00
Colt Official Police 38—4"	65.00
Colt Super 38 Auto	65.00
S & W K22 Masterpiece 6"	65.00
S & W—M & P—4"—5"—6"—2"	56.50
High-Standard 22 Auto H&D	51.17
Ithaca Model 37—12-16-20 Ga.	78.50
Marlin 39A—22 Rifle	50.45
Winchester 61—22 pump	44.50
Rem. 513T 22 target rifle	53.50
Winchester 64—219 Zipper	87.35

USED GUNS

Colt Woodsman 22—6¾" barrel—Very good	50.00
Colt Ace 22 Perfect	70.00
Colt 32 auto Perfect	60.00
Colt New Service 45—7½"—Perfect	60.00
Colt Police Positive 32—4" Very Good	35.00
S & W—K22 6" Excellent	58.00
S & W 22 32—6"—Very Good	45.00
Rem. 41 Derringer—Perfect	40.00
Colt 25 auto—Perfect	38.00

NEW SCOPES

Unertl—10X—1¼" Coated 78.00
Lyman Alaskan 60.00
Weaver K2.5—$37.50 K4—$45.00 K6—$48.50 J2.5—$22.50 J4—$27.50 G4—$9.75 G6—$12.50.

We have 270—150 grain Ammo $2.80 per box. Sisk 10—42—50 Grain bullets—Primers. Large selection of ammunition and other items in stock.

Write us your needs.
No C.O.D.'s

WOLFF & MUNDY
GUNSMITHS
5 South 69th Street, Upper Darby, Pa.

"RANDALL MADE" KNIVES

The Finest You Can Buy

Hunting—Fishing—Skinning—Carving—Fighting

100% handmade in my own shop, of finest imported Swedish tool steel. Supplied with Heiser sheaths. Higher priced because they are highest quality obtainable.

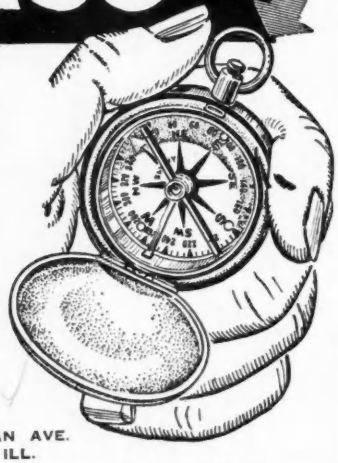
W. D. Randall, Jr., Box 1988-R, Orlando, Fla.
Send 3¢ for descriptive circular . . . 10¢ for Knife Manual . . . 35¢ for Knife Fighting Booklet.

WAR SURPLUS Close-out

only $1.49 for this ~~$4.75~~ VALUE

While They Last!

U.S.A. OFFICER'S COMPASS

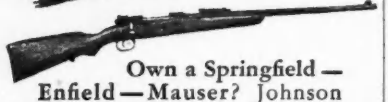


Truly, this is the most amazing War Surplus close-out value you will ever see. The most outstanding offer that any outdoor man or boy will ever have . . . and at a price so low it is unbelievable. Made by the famous Waltham Watch Co. and other big name watch concerns, this official U.S. Officer's compass looks like an expensive pocket watch. Has a hinged protective cover that snaps open to a large, easy-to-read luminous dial with accurate bar type jewelled needle and break-proof crystal. Tells all directions . . . even at night. Heavy bronze or nickel casing protects the highly sensitized needle and gives a smart appearance. A must for all outdoor activities including hunting, hiking, fishing, etc. Regular $4.75 value . . . now closing out for only $1.49. Supply is limited, so order NOW . . . for yourself, or as a gift. SEND NO MONEY. Simply send your name and address TODAY. When compass arrives, simply deposit $1.49 thru postman. If you are not completely satisfied, money will be returned. Take our word for it . . . there never was a finer compass at anywhere near this closeout price. Don't miss it!

MILLER & CO., DEPT. 376-R 205 N. MICHIGAN AVE. CHICAGO 1, ILL.

CONVERT YOUR MILITARY RIFLE

to a **SPORTER** PRICES START AT $26



Own a Springfield—Enfield—Mauser? Johnson Sporter conversions offer you safe hunting arms or handsome high-power sporters from $26 to $177. Send us your rifle today.

New 24-page Catalog

Our new 1948 catalog is loaded with interesting gun information, including 8 new pages of services and firearms data, latest information on discontinued metallic cartridges, special inspection service on D C M Rifles. Write for it today . . . price only postpaid 25c

Gunsmiths-Dealers

Write for special dealer discounts and rebarreling services. See our "classified" barrel ad.

JOHNSON AUTOMATICS

Custom Gun Department

Dept. R-3, Providence 1, Rhode Island

Makers of the JOHNSON INDOOR TARGET GUN

GUNSLICK KITS

with Duraluminum Cleaning Rods... the SHOOTER'S AID

KEEP YOUR GUNS FACTORY-NEW

Thousands of sportsmen own this valuable GUNSLICK KIT. Contains Beautiful Duraluminum Rod with tips and brushes—GUNSLICK 400, world's finest lubricant, used and endorsed by experts—GUNSLICK 444 Solvent—GUNSLICK 490 Gun Grease—GUNSLICK 445 Oil—Big Can Patches. **Shotgun Kits** size 12, 16, 20-28, 410. Only **$2.75**—**Rifle Kits** size 22 and 30-Cal. Only **$2.50**. **Revolver Kits**, all calibers, **$2.25**. ***Order Your Kit Today!***

Free Booklet "Tips to Shooters" by Col. Whelen. Get your copy today!

Outers *Laboratories* ONALASKA (La Crosse), WIS.

CROSMAN *Silent* RIFLE

POWER without POWDER

You'll like a Crosman because there is no recoil to spoil your aim...no noise...no odor...no cleaning! Rifled barrel for greater accuracy . . . adjustable power, too, for short or long range shooting indoors or out. Available in .177 and .22 cal. models.

AT YOUR DEALER OR WRITE DIRECT

CROSMAN ARMS CO., INC.

29H HENRIETTA ST., ROCHESTER 7, N. Y.

•TOMMY DOTS•

FOR ANY TYPE OF SCOPE

(Foreign Scopes a Specialty)

New scopes and mounts, from stock, at standard prices; with any type reticule desired—or installed in your own scope. Write for free folder and price lists.

Wholesale — Retail

ROBERT S. THOMAS P. O. Box 81 Silver Spring, Md.

---

257 ROBERTS 30S REMINGTON. COCKS on opening. Excellent inside, good outside. Fired about 200 rounds. Fecker 4X small game scope on Fecker mounts. Lyman 48 rear (minus disc), ramp front. Some prewar ammo. including J. Bushnell Smith chuck loads. Sling, quick detachable swivels, glove, cleaning rod. First certified check for $135.00 takes all. A. K. Higgins, 1834 First Avenue, East, Cedar Rapids, Iowa.

CROSMAN BULLSEYE AIR PISTOL, 177 caliber with about 1000 pellets, like new, $16.50 complete. Hudson, R-52 Warren Street, New York 7.

REMINGTON ENFIELD 30-06 EXCELLENT in, good blue Redfield mounted 330 Weaver Bishop stock accurate 200 rounds M2 $150.00. Gordon McQuown, 1217 South Mason Street, Bloomington, Illinois.

STEVENS-POPE TYPE PALM RESTS, $10.00. Chester Nikodym, Chagrin Falls, Ohio. 5-48.

HICKS (THE GUNMAN) BUYS, SELLS, trades guns of all descriptions; modern and antique. Want Colt Frontiers. Have rifle scopes to trade. Wakefield, Mass.

RELOADING EQUIPMENT, PRIMERS, BULlets, tools and moulds. Send for list and prices. Wm. Mansfield, 621 So. Rock Hill, Webster Groves 19, Missouri.

MINIATURE PISTOL REPLICAS CREATED in bronze, by a collector, for collectors. Send 10¢ in coin, which will be refunded on first order, for our illustrated booklet. W. H. Clemens, 235 Byberry Rd., Hatboro, Penna.

EXCELLENT BLUED WINCHESTER HIGH sidewall 30-40, S.S. trigger, wood, good, $52.50. Excellent K2.5's, $32.50; Excellent K4, $37.50; Dillon precision lead thermometers, a necessity for bullet-casting, $3.95 postpaid. J. W. Eatman, Cuero, Texas.

BRAND NEW WINCHESTERS: PERFECT: 30-06; Lyman micrometer, ivory, smooth actions; targeted only—$150.00. 257; standard sights, unfired—$125.00.—Remington M12 junior .22 pump, Weaver 333; bluing worn, mechanically perfect $40.00. Thos. D. Robinson, Hampton, Virginia.

CUSTOM-BUILT .257 MAUSER, MEDIUM heavy Buhmiller barrel, beautifully stocked, Leupold scope Litschert 8X attachment, King-Pike mount, excellent, $235.00. William Franklin, 4316—4th Street, North, Arlington, Virginia.

S&W ARMY REVOLVER .45 CALIBER A.C.P. reblued, condition good $45.00. Stevens single shot 12" barrel skeleton stock, condition good, $22.00. F. T. McCoy, 81 Hillside Avenue, Arlington, Mass.

SHOOTING MASTER, PERFECT, .38 SPECial, $95.00; OMTHB, .38 special, King rib, sights, short action, cockeyed hammer, Roper grips, excellent, $100.00; S&W King .38 special target, King rib, action, cockeyed hammer, perfect, $100.00; Walther Olympic, 9⅜" barrel, all weights, key, extra magazine rod, excellent $200.00. Jos. Zeller, 3 bbl, 16 ga. 9.3x72R, Mignon Gerard 2½X, excellent $200.00; S&W Straightline, excellent, $50.00; Ithaca custom 28 ga. double, engraved, recoil pad, 7 boxes shells, $200.00. Send stamp for list. Marksmen, 112 West Ninth, Little Rock, Arkansas.

MAP OF ALASKA AND WESTERN CANada. Large size, shows Alcan Highway. $1.50 postpaid. W. Joseph O'Connor, Baker, Oregon.

MANNLICHER-SCHOENAUER 6.5 FULL stocked 19" barrel with factory mounted Dural Featherweight Zielvier scope, $250.00. Holland & Holland .240 Apex cartridges $6.85 box. George Pace, 605—29th Street, South., Arlington, Virginia.

FEDERAL 450 PHOTOENLARGER LIKE new; Easel; Champion printer—all (list $154.00.) $75.00. Write; no wires-calls. Arnold Hayne, 645 Ocean Avenue, Brooklyn, N. Y.

MARLIN #39—WITH MOSSBERG SCOPE, excellent, except slight repair on toe of stock, $65.00. T. E. Gaskill, Six Lakes, Michigan.

M-70 HORNET, ALASKAN, 6X LITSCHERT, Redfield, sling, perfect, $187.50. Belgian Browning Lightweight, 12-28 mod. rib, perfect $137.00. M. M. Hebner, Washington, Iowa.

K-22 MASTERPIECE, PERFECT, BELT Lawrence holster $80.00. Starr .44 percussion Army revolver, good $22.00. Archie Fisher, Montville, Connecticut.

GUN STOCKS

Semi-inletted or completely fitted to your action.

Blanks, also

JOSEPH SZCZEPANIK

Englishtown N. J.

270 ACKLEY NEWTON, FIRED 50 ROUNDS, checkered Bishop stock, Enfield action all modernized, 330 Weaver scope; Redfield mounts, gold bead ramp front, barrel band folding rear, all excellent $175.00. Ammunition for above, 100 rounds, 163 grains, 3400 vel., 100 rounds 150 grain H.P. 3600, 100 rounds 120 grain 2700; $20.00, $18.00, $15.00 per 100. Want Enfield, Springfield, Mauser as issued, barrels and stocks unimportant. M. R. Raymond, Fallon, Nevada. P. O. Box 629.

ITHACA PUMP (37T) TRAP GRADE, 12-30 full choke, ventilated rib, $152.80. Ithaca pump, 37S skeet grade, 12-26 modified or full choke, $127.50. Ithaca field grade, 12-30 modified and full, 12-28 full and full, 20-26 modified and full, each $91.47. Lefever Nitro special, 12-30 full and full, 16-28 modified and full, each $52.09. All brand new. Hudson, R-52 Warren Street, New York 7.

ANTIQUE MODERN FIREARMS, EDGED weapons, 5¢ for list. Lester Freedland, 607 Greenwood Avenue, Brooklyn, N. Y.

AMMUNITION: .22 L.R. REGULAR $5.50 M. Match $7.00 M. .22 Short $4.25 M. .22 Hornet $2.75 box. .38 Special $1.65. .357 Magnum $2.30, Blanks, Krag $1.70 box .32 $1.10, .38 $1.20 22, $.30. Shotgun shells high velocity 12, $1.60 16 $1.45 20 $1.35, 28, $1.40, 410, $1.40 regular 12 $1.20, 16 $1.15 20, $1.20. Colt Frontiers 38-40, 45, $50.00 each. Excellent, Bisley $45.00. 30-06 sporter .330 Weaver scope $130.00. Cushman Shooters Service, 12 Tilton Ave, Brockton 23, Mass.

45-70 HAMMER SHARPS, MILITARY, UNaltered, 30" barrel, fair $35.00. 38-55 Remington Hepburn, 30" barrel, octagon, fair $22.00. .38 W.C.F. Winchester single shot, low-side, fair, $20.00. 38-55 .38 W.C.F. .44 W.C.F. moulds and tools, $6.50 each. Colts Super .38, perfect $58.00. Harry McGinley, Houlton, Maine.

EXCELLENT WINCHESTER 97, 16 GAUGE, $50.00. Very good Remington 121 with King peep sight, $32.00. Also, 4x5 Grover view camera, Geortz lens, case, and holders, $140.00. George Gould, 7 Yale Station, New Haven, Connecticut.

SHEEPSKIN GUN CASES SPECIAL MADE to fit any gun or rifle. Free descriptive folder. Satisfaction guaranteed. H. C. Nielsen, 630 Congress, Neenah, Wisconsin.

23-D HORNET, EXCELLENT; 440 WEAVER, excellent; box cartridges, $90.00. 1903 Springfield; 925205; ramp with bead; 102 Redfield receiver; custom barrel, perfect; remodeled issue stock; action, very good; $65.00. Short Woodsman, good, $45.00, or trade for good 25-35 Winchester. Good, 3¼x4¼, cut film, Ihagee, view, F4.5, flex shutter, $90.00, or trade for model 70, Hornet, 257, 250-3000. Ewin Anderson, Rt. #3, Clarksville, Tennessee.

M71 348 20" BARREL NEW $91.50. M241 Remington autos new, $59.50. M99EG Savage 300 with Redfield mounts and Texan scope new $160.00. Remington M513T perfect $41.50. Winchester M75 target new $53.50. Remington 16ga. automatics new, $94.00. Rifle ammo, most calibers. Jeff. Trader, Pocomoke City, Maryland.

VERY GOOD HIGH SIDE HORNET, ZEISS Zielklein, Litschert 6X, Redfield Senior, $79.00. Robert Bryarly, 1138 State, Lafayette, Indiana.

WINCHESTER ENGRAVED PIGEON GRADE trap pump ventilated rib (not Winchester's) 30" full, beautiful Monte-Carlo 1-⅜x1-⅜x14-⅜ pistol grip, pad, excellent in and out, $275.00. Extra 28" mod. barrel same type ventilated rib, not original but fitted, Beavertail forearm, and magazine, excellent, $75.00. Remington overunder, ventilated rib, S.S.T. 30" mod. & full, good condition, $275.00. Browning overunder superposed, v. rib. 32" mod. and full, latest type single, selective trigger, excellent in and out, $225.00. Ithaca "Sousa" single trap 32" full, cracked forearm, otherwise very good, straight grip, $475.00. Wanted Browning overunder "Midas" grade. W. Sonnenschein, Pipestone, Minnesota.

NEW FIREARMS. REMINGTON, WINchester, Colt, Hi-Standard, others. Write. Have or can get. March specials; Remington 37AR, 513T, 241, 141, Sportsman 20 Poly. Scopes, mounts, sights etc. Experienced careful gunsmithing. Custom Varmint rifles on our actions or yours. Sensational scope mount coming out soon. This one will astonish you. Dealers write. Miller's Gun Shop & Firearms Service, Kingwood Park, Poughkeepsie, New York.

WINCHESTER M70 BULLGUN, 30-06, EXTRA Bullpup stock, $175.00. Donald Amesbury, 4065 Monticito, Tucson, Arizona.

NICKEL-CHROMIUM and GOLD PLATING
Also rebluing—prices on request
WALKERS GUN SHOP 2118 Washington Ave. Houston 10, Texas

Coach of Champions uses the Mark 218

GENE BUNSTINE
VETERAN COACH
of the Adobe Walls Junior Rifle Club, Los Angeles, undefeated in 21 consecutive matches 1946-47, has this to say:

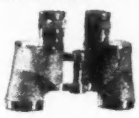
"The Mark 218 is a fine scope for junior marksmen. It is inexpensive, easy to use, sturdy and gives all the definition any small-bore shooter needs. Our club has a Mark 218 and by carefully spotting every shot our marksmanship stays high."

D
mark 218
38 mm. Objective Coated Lens

Junior or Senior shooters will like the crisp, clear image through the Mark 218. Its high quality and low price make it a must for any shooter. Buy one—Stick it in your Pocket.

DAVIDSON manufacturing co.
5146 Alhambra Ave. Los Angeles 32, Calif.

BAUSCH & LOMB BINOCULARS



Government Surplus: Used 6x30 good $37.50, select $47.50, coated lenses $52.50. Unused 6x30 M3 war II with coated optics lightweight $95. Unused Universal US Navy 6x30 M33 with coated optics war II model in original cartons $85. Other used binoculars. Guaranteed. Large stocks. B&L 7x35 as new CF or IF $120. Universal 6x30 war II lightweight $45. US Army Signal Corps 6x30 $36. B&L 7x50 Navy as new $120, good $99. German 6x30 $39.50. Zeiss type 13 oz. 6x30 $65. Zeiss 14 oz. 8x30 Deltrintem $150. New German 8x40 deluxe $140. New German 6½x50 deluxe $120. Zeiss featherweight 10x50 $125. Zeiss Delturis 8x24 excellent $75. German marine 7x50 coated optics (no case) $125. Prices include case and Govt. tax. Others, ask for list. Zeiss type 20x125 (5") with tripod $495.

LOUIS DOMINGUES 3501 Asbury Dallas 5, Texas

SOUTH BEND

NEW BALL BEARING LIVE CENTER

Designed for maximum strength and rigidity, the Ball Bearing Live Center is recommended for high speeds, heavy roughing cuts, etc. 60 degree point runs in substantial precision ball bearing which is easily replaceable.

Center with No. 2 taper shank **$11.50**
With No. 3 shank **13.50**

SOUTH BEND LATHE WORKS 452A E. Madison St. South Bend 22, Ind.

Makes Old Guns Look New
Van's INSTANT GUN BLUE

$1.00 Kit... Removes grease, penetrates rust, leaves a satin blue-black finish. Takes minutes, not hours. Kit includes Gun Blue, cotton, Crocus cloth and steel wool. Ask your dealer... or write for folder.

C. S. VAN GORDEN & SON EAU CLAIRE, WIS.

RELOADERS

IDEAL POWDER MEASURES

WE HAVE THE NEW IDEAL NO. 55 POWDER MEASURES AND THE NO. 45 SIZER AND LUBRICATORS IN STOCK FOR IMMEDIATE DELIVERY. The improved No. 55 powder measure features a new transparent powder chamber. Close fitting, long wearing parts. Drop tube held in place with a retaining spring and will not fall out during operation. $10.00 FOB here or $10.35 postpaid. No. 45 sizer and lubricator uses same dies as the old Ideal No. 1. Many new improvements. Specify bullet wanted for. If wanted for bullets other than from Ideal moulds please mail us 2 or 3 bullets. $12.50 FOB here. $13.00 postpaid. Extra set plungers and sizing die, $3.00.

LYMAN TRU-LINE JUNIOR LOADING TOOLS in stock. Complete for one caliber $22.00.

PACIFIC standard tool, $28.75. SUPER FRAME model, $35.75. Extra parts and dies in stock for all popular calibers, for the Tru-Line Jr. and Pacific tools.

IDEAL BULLET MOULDS, single cavity, standard types, with handles, $6.00. Blocks only, **$4.00.** Ideal melting pots, $1.25. Melting pot holder, .75¢. Ideal bullet running dipper, .75¢. Ideal bullet lubricant, per stick, .25¢. LYMAN GAS CHECKS, .22, .25, .270, 7mm, 30 cal. $1.75 M. 30, 32, 38-55 cal. $2.00 M. Prices F.O.B. here.

POWDER. In stock, DuPont Nos. 4320, 4064, 4350, 3031, 4198, 4227, Hercules Hivel No. 2, 2400, Lightning and Sharpshooter, $1.80-lb. DuPont 4759, No. 6, No. 5066, Hercules Bullseye, Unique, DuPont bulk, MX and Red Dot shotgun smokeless, $1.10 per ½ lb.

PRIMERS. Win. Rem and Western. All rifle & pistol sizes, $6.25 per 1,000. Smaller lots are 65¢ per 100, plus a packing charge of 25¢ per shipment.

LEAD SHOT. Chilled, sizes 1, 2, 4, 5, 6, 7, 7½, 8, 9, 10, 11 and 12. DROP SHOT in BB size only. $1.60 per 5lb bag. $7.50 per 25lb bag. FOB HERE.

OTHER ITEMS we have in stock include Sisk 22 bullets, SPEER bullets, empty primed shells in most all calibers, Ipco graphite wads, Wilson tools, Fasig bullet pullers, scopes, mounts, etc. Write for list. Stamp appreciated.

LINDAHL GUN COMPANY
CENTRAL CITY **NEBRASKA**

NEAL MICROMATIC CO.
1406 S.W. Water Ave., Portland 14, Ore.

Gentlemen: Please send me
1 Neal Micromatic Sight.
☐ C.O.D. ☐ Money Order enclosed.

Rifle Model..... Make.....

Name.....

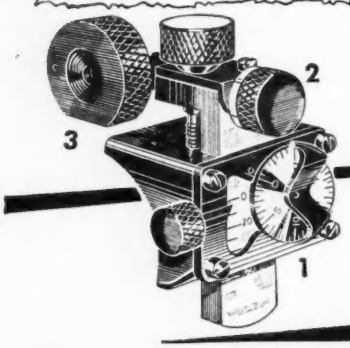
Address.....

Ultra-Precision

ADJUSTS TO 1/20 INCH AT 100 YARDS

Precision sighting engineered far beyond the accuracy factor of your gun and ammunition. The Neal adjusts to infinity between calibrations for both elevation and windage. No clicks—No stops—No dead spots! No government micrometer needed, once zeroed in. Positive, sturdy worm action—gives its own standard micrometer reading. Neal is the sight especially adapted to long range target shooting. Order your ultra precision Neal today! Sold on 30-day money back guarantee. Price prepaid, $25.60.

1. **Micromatic Vernier dial adjustable to any fraction of a minute.**
2. **Windage calibrated to 1/16-in. at 100-yard range.**
3. **Adjustable aperture peep 1/64-in. to 1/8-in. diameter.**



Neal
MICROMATIC
TARGET SIGHT

You'll say IT'S SENSATIONAL! . . . the greatest development since invention of the holster!

The NEW FRANZ-LOC HOLSTER CLIP

SPRING CLIP eliminates opening or removing belt to attach or detach holster—Instantly SNAPS on or off!

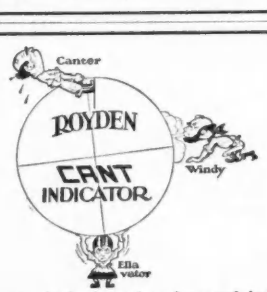
3 sizes to fit belts 1 in. to 2½ in. wide. . . . Send Today for FREE FOLDER with prices.

SPORTS, INC. 5505 BROADWAY, DEPT. CA3 CHICAGO 40, ILLINOIS

A POLY CHOKE

on your favorite pump or automatic shotgun makes it Nine Guns in One. Send us barrel only, give overall length desired, and we do the rest here in our own shop with two-day service. The regular Poly Choke is $14.75, and the New Ventilated Poly Choke is $18.75 complete. We return your barrel prepaid.

THURMAN RANDLE & CO.
208 N. Akard St. Dallas 1, Texas



A completely housed and rugged indicator which will automatically correct your hold and eliminate the inaccuracy caused by canting. Installed in your WEAVER K2.5; K4; or K6 $12.50 New WEAVER with the Royden Cant Indicator installed: K2.5.....$147.25 K4.....$54.75

Immediate Delivery

ROYDEN INSTRUMENT AND RESEARCH CORP.
Box 2285 Reno, Nevada

---

6 x 30 NAVY WORLD WAR II

$49.50

Made to rigid U. S. Navy specifications by Universal Camera Corp. Used, in excellent condition. Lightweight. Crackle finish. Complete with case and straps. $49.50 plus 20% Federal tax. Use for 20 days at our risk and expense. If not fully satisfied return for full refund of your money. ORDER TODAY! Send $2.00 deposit and we will ship C.O.D. for balance. Cash orders sent postpaid. United Products Co., 7941 S. Halsted, Dept. ARF-1009, Chicago 20, Ill.
(Reference: Dun & Bradstreet)

LONE STAR DUST CAPS

Hand made, of top-quality leather

Guaranteed for ten years!

If your dealer can not supply you send check for $1.75. Dealers write for discount.

M. L. SMITH, Rt. No. 3, Bryan, Texas

LUGER .38 COLT D.A., .45 AUTO U. S. $30.00 each. R. Vail, Warwick, N. Y.

GUNSMITHS, SPORTING GOODS STORES, etc. You can print your own advertising messages on post cards with a 6 lb. portable machine we have tested. $5.00 brings complete details and where to purchase it. Evergreen Business Service, Box 37, Brooklyn 22, New York. 4-48.

U.S. MUSKETS, RIFLES & CARBINES BY Col. Arcadi Gluckman. Published this month! Comprehensive 500 page volume, giving detailed descriptions of all important martial long arms ever manufactured in the U.S. Nearly 200 illustrations. $8.50. Otto Ulbrich Co., Inc., 386 Main St., Buffalo 2, N. Y.

$29.00 GOVERNMENT USED BINOCULARS 6 power with case including tax. Send for list of others. Weil's Curiosity Shop, 20 So. 2nd Street, Philadelphia 6, Penna.

2—P.38'S, EXCELLENT $30.00; 1 LUGER 9mm. excellent, $32.50; Shells: 8mm. and 31 Jap $5.00 per box; 25, 32, 380 automatic $4.75; 9mm. Lugers $7.50 box (50). Jack Bockenheuser, 1005 Fondulac, Muskogee, Oklahoma.

70-06, K2.5, WEAVER MOUNT, 48 WJS (NOT mounted), perfect, sheepskin case, 160 factory rounds $185.00. Mauser .257 by Johnson. DST, Bishop, M81 (Alaskan) Edwards deluxe (not mounted), perfect, test fired only, 40 factory rounds, $200.00. 98 Mauser complete rifles, 42 and earlier, actions excellent $39.50. Officers P-38 holster, 2 boxes ammo, excellent, $50.00. Colt Commercial .45 new $60.00. 6 HP Mercury outboard, run 3 hours, $140.00. 172 grain Boattail $7.50 hundred. Boxes 50- 9mm. Luger $4.50, 158 grain .38 Special $2.25, .45 Commercial $3.00, M.O. please. Trades considered. Want 99 .300, James Yarbrough, 318 No. 22nd St., Fort Smith, Arkansas.

NEW BARRELS FOR 1917 S&W .45 CALIBER, not stamped U.S. Prop. $7.50 each. U.S. Springfield short bayonets without wood grip, new, $1.50. New barrels .45 auto, model 1911, each $5.50. Hudson R-52 Warren Street, New York 7.

PRECISION MACHINED BRASS HAMMER for those particular fine jobs. 3½ oz. brass head firmly screwed on to nicely knurled steel handle. Satisfaction guaranteed, money order only. $1.25 postpaid. Gardner & Millspaugh Company, Knightstown, Indiana.

L.C. SMITH, IDEAL, 12 GAUGE, 26", O&M, ejectors, oil finish, pad, barrels newly blued, good, $69.00. L. O. Mann, 335 Clay, Scranton, Penna.

.257 CUSTOM SPORTER BY VAIL, ENgraved Mauser action, 330 Weaver, Lyman, Caucasian stock, extremely accurate, excellent, $185.00. M. Lutz, 526 Sunset Lane, East Lansing, Michigan.

NEW M1 CARBINE STOCKS WITH BUTT plate, recoil plate, also front hand spring and new hand guard, complete, $4.75. M1 carbine barrels, 30 caliber, without sight, brand new, $4.25; v.g, $2.75; good, $1.50. Magazines, 15 shot, new, $1.50; used, 75¢; front sight, $1.00; original rear sight, $1.00; latest adjustable rear sight, $1.50. Hammer springs, 75¢. Safety plunger, spring and retainer, 50¢. Main Spring, 35¢. New web slings with oiler, $1.50. New bolt assembly, complete $3.50, add postage. Hudson, R-52 Warren Street, New York 7.

PREWAR CUSTOM BUILT, BT BRAUN, Munzel, Coblenz 12- Krupp 28"- 2⅝" - 60-70, 6¾ lbs. Circ. walnut standard dimens. cheekpiece, Greener bolt 2 locking lugs. Side clips cocking ind. perfect balance leather case barrels slightly scored, very good $140.00. R. Bushkovski, Lexington, Nebraska.

.22 WRF STA-KLEAN CARTRIDGES, $1.80 per 100. No C.O.D. Ed Howe, Box 64, Coopers Mills, Maine.

SPRINGFIELD M1903 RIFLE, GOOD TO very good, bayonet and new sling; $50.00. Army sword, 36" blade; $3.50. Frank McElroy, 2715 Broadway, Evanston, Illinois.

HANDLOADS: HORNETS, K-HORNETS, $6.50 per 100. Your cases $5.50. .38 Specials $1.95 your cases. Raymond B. Shultz, 1304 Farragut St., N.W., Washington 11, D. C.

EASTON PRESS, LIKE NEW. DIES FOR 250-3000, .270W. 30-06. M.O. $40.00. A. M. Spaulding, Cohocton, New York.

VERY GOOD 97 WINCHESTER $55.00. WINchester single shot 25-20 low sidewall, good action, poor barrel, $20.00. Otto Haller, Winkler, Kansas.

FIREARMS LIST No. 3

RAYMOND C. WALZ

New, Used and Antique Firearms; scopes, sights, accessories, gun books; etc. Now ready. Stamp appreciated.

R-10 Union St., Middletown, N.Y.

256 NEWTON EXCELLENT OUTSIDE GOOD inside, complete Newton 256 reloading tool. 28 cartridges. 20 primed cases. 100 empties old trunk case $130.00. Ernest Schantz, Annandale, New Jersey.

HANDLOADED AMMUNITION, 8MM. 30-06. 7mm. .270, .257, 250-3000, various centerfire 22's, your cases or new brass. Weaver scopes. Prices upon request. Walter Schroeder, 442 Easy St., Palatine, Ill.

CUSTOM LOADING - .270, 30-06 300 SAVAGE 7mm. 8mm. 250, 257, .220 Swift 22-250. .32 Special, .32 Remington cases new, primed 2c. 22-250 cases, new 11c. .22 caliber jacketed bullets. R.C.B.S. 7-S, 6-S Ogive 50-55, 60-65 gr. Amos Frombach, (Member) 2619 E. Spring St., Seattle 22, Washington.

HI-STANDARD HDM 4½" ONE 6¾ $45.00 each. F.N. Mauser action model 1948 $40.00. All new, Want Hornet; auto. shotgun. M. G. Hoppes, Rt. #1, Wabash, Indiana.

MAUSER 98 SPORTER 8MM. REDFIELD #70 rear. Ramp front. New stock. Sling swivels. Perfect $95.00. New Weaver K4. $37.50. New K6 $42.00. E. J. Cowan, 1704 5th St., Altoona, Penna.

ENFIELD 24", LYMAN BAND RAMP, REDfield 70, straight tang, not reblued, no stock, excellent $55.00; Woodsman 6½" excellent $45.00; Edward Seidel, 205 South West St., Falls Church, Virginia.

HEAVY COWHIDE U.S. ARMY FLAP holsters to fit .45 automatic, .38 Super or .22 Ace; Brand new, $2.45. Hudson, R-52 Warren St., New York 7.

.38 SPECIAL WADCUTTERS @ $2.00 PER 100, with your empty cases. Save yourself money on reloaded .38 Special, .45 Colt and .45 automatic. Lowest prices in the field. 10¢ for price list. George Buey, 5438 Christian St., Phila. Penna.

.22-250 VARMINTER, ENFIELD ACTION, Bishop stock oiled, blued, iron sights, scope blocks, like new, accurate, $96.00. Roy Chapman, Atwater, Ohio.

10 GA. ITHACA MAGNUM, 32" F&F RECOIL pad perfect $110.00. 12 ga. Winchester model 12 comp barrel 26" perfect $95.00. 410 Crescent Arms 26" F&M 3" perfect $48.00. 16 ga. Ranger over & under 28" F&M very good $50.00. 20 ga. Remington model 11, 28" modified new condition $95.00. 12 ga. Remington Sport-smen, 26" modified perfect $94.00. 12 ga. Belgium Browning, 5 shot, raised rib, 26", modified, perfect $105.00. 12 ga. Belgium Browning automatic, 24½", comp barrel very good $100.00. 45 Smith & Wesson 1917 very good $45.00. 300 Savage 99 excellent in, good out, peep rear $75.00. .22 H&R 999 perfect $45.00. 12 ga. Winchester model 12, skeet 26" raised rib perfect $95.00. 20 ga. Winchester 21 skeet perfect $205.00. New Guns: 12 ga. Magnum model 22, 32" full $94.00. K-22 Smith & Wesson $65.00. 12, 16, 20 model 12 $83.50. .22 Winchester 62 $39.75, model 61, $47.50. 94 Winchester 30-30, 32 Special $59.50. 52 Heavy barrel without sights $89.15. 75 Target $47.05. 75 sporter $47.05. 42 Winchester $83.50, skeet rib $97.50. Ammunitions: 8mm. Mauser $4.00 per box. 9mm. Luger $4.00. 32 auto $2.60. 25 auto $2.10. 22 Hornet $3.85. Other ammunitions at retail prices. $1.00 packing charge on orders under $10.00. Stamp and money order please. Rays Sport Shop, Highway 29, Scotch Plains, New Jersey. Mgr. R. P. Lueddeke

$1.50 NEW GOVERNMENT CANVAS FISHing or gunning case 8"x10"x7". Leather bottom and corners. Adjustable shoulder straps. Can be shipped parcel post. We have plenty. Weil's Curiosity Shop, 20 So. 2nd St., Philadelphia 6, Penna.

OFFICER'S MODEL COLT, HEAVY BARREL .38 Special Roper stocks. Heiser carved belt and holster perfect $85.00. Harvey L. Rumaner, 219 Scott Ave., Syracuse, N. Y.

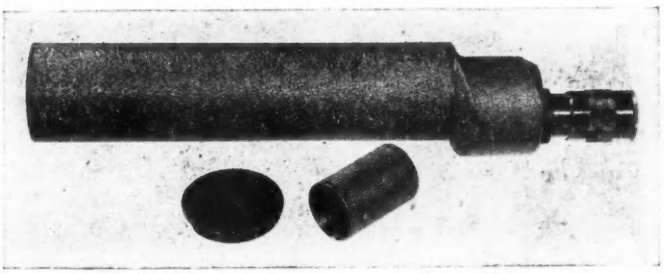
KRAG CUSTOM SPORTER, REDFIELD rear, ramp front, beautiful checkering, flush magazine, excellent, $75.00; H&R .38 Defender, excellent except holster wear, holster, box ammunition, $30.00; 1000 .38 Special Wadcutter reloads $25.00. W. A. Ball, Oneida, N. Y.

NEW STEVENS .22 AUTOMATICS $26.60 Savage 99 .300, Weaver 330 Stith, perfect $150.00. Savage model 20 250-3000 excellent $95.00. Free illustrated catalog. Valley Sporting Goods, Herkimer, N. Y.

PRIVATE COLLECTION: MAUSERS—ENfield-Krags. Write for circular and prices. F. L. Barlett, Kane, Penna.

GAS CHECKS .22, .25, .270, 7mm, .30, .32, 8mm, .35 *List of shooter's supplies* $1.50 Per M Postpaid
WARNER & SON 2510-12 Pleasant Valley, Altoona, Pa.

The New **UNERTL** 2½" (63m/m) 24X
Prismatic Spotting Scope



Abundance of light, greatest resolving, good eye relief, lightness and sturdiness are all features incorporated, 16" long. Hard coated throughout.
Straight line 24X2½" prismatic....$80.00 Right Angle 24x2½"....$96.00
See your dealer or write to
JOHN UNERTL OPTICAL CO. 3551-55 East St. Pittsburgh 14, Pa.

SELECT MACHINE INLETTED WALNUT-MAPLE-MESQUITE STOCKS

We are now prepared to offer shooters machine turned stocks of modern design in both Monte Carlo and Standard in select English Walnut, Maple and Mesquite for high grade modern guns. Available also for Wisler-Bates Smallbore Stock.

OFFICIAL N.R.A. TARGETS

1948 CATALOG our first since 1943 is now ready for distribution. Hundreds of items for the target shooter and hunter. Handloading equipment and components. Send 50¢ for your copy now. If you shoot—don't be without this book.

WISLER WESTERN ARMS, INC.
FORMERLY WISLER WESTERN TARGETS
63 SECOND STREET **SAN FRANCISCO 5**

NOTE:
***The* DEALER & COLLECTOR**
advertised below, is also available at magazine stands in the following vicinities: MAINE – Bangor, Portland; NEW YORK – Albany, Long Island, Middletown, Poughkeepsie, White Plains; NEW JERSEY – Elizabeth, Newark, Paterson; TEXAS – Dallas. – ASK FOR IT TODAY!

NEW GUN MAGAZINE
AT MOST NEWS STANDS OR ENTER YOUR SUBSCRIPTION NOW!
FEATURING:
- *Rifles, Pistols, Shotguns*
- *Cartridges & Ammunition*
- *Gunsmithing Notes*
- *Trade Notes & Products*
- *Interesting Illustrations*
- *New & Antique Items*

By subscription: $2.00 per year, $3.50 for 2 years, or $5.00 for 3 years. – (Foreign: Add 50¢ per year)
THE DEALER & COLLECTOR
Dept. DRX, Flushing, New York
THE DEALER & COLLECTOR

WAR SURPLUS Brand New
RAIN CAPES
At Amazing Close-Out Price of $1.00
3 for $2.50

These Cover-All Rain Capes are big and roomy, 52" wide, large enough to completely cover a fully equipped soldier. Made of tough material, it covers you completely . . . hat, coat, shoes and all. Transparent top allows you to see in any direction. You can walk and move about freely while wearing this rain cape. Folds down to a small, compact package with a foil-lined case that fits pocket, lady's purse, compartment of your car, golf bag or tackle box. Every motorist should have one. Ideal for hunters, campers. Perfect for children in rainy or snowy weather. Over 4 million sold to date. Order as many as you like. Never again will these all-weather protection Rain Capes be available at anywhere near this low war surplus bargain close-out price of only $1.00. Write today.

SEND NO MONEY - - Try at Our Risk

Just send your name and address. On arrival pay only $1.00 plus C.O.D. postage through postman. If you do not agree your all-weather Rain Cape is worth 4 to 5 times the dollar price, return and your money will be refunded. Cash orders sent prepaid. Write NOW.

SURPLUS SALES, Dept. 376-C Joliet, Ill.

SHOOTERS' SUPPLIES

Winchester 52's	$79.50-$89.15
Winchester 75's	$45.05-$53.50
Winchester 69's	$20.60-$35.80
Remington 521-513T's	$35.45-$53.50
10-X Coats, all sizes	$13.00
Redfield receiver sights	$5.75-$8.50
Redfield mounts	$10.75-$12.75-$14.75
8 MM Speer 170 Gr.	$4.20
Limited Supply S&W K22	$65.00

Loading tools. Scopes — all makes and sizes. Complete stock of Target, Shooting & Reloading equipment.

PROMPT SERVICE
DON'S SPORTING GOODS
701¼ S. Arlington St. Akron 6, Ohio

FOR BIG MEN ONLY!

QUALITY SHOES IN SIZES 10 to 16
We specialize in EXTRA LARGE sizes only; sizes 10 to 16; widths AA to EEE. Oxfords, High Tops, Work Shoes, Sox. EXTRA quality—EXTRA comfort. Prompt delivery. Satisfaction guaranteed. FREE Catalog.
Write for FREE Catalog
P.O. Box 798, Dept. 538
KING-SIZE, Inc., Brockton, 64, Mass.

Reloaders! Get the best!

Accuracy - Speed - Strength - Durability

"PACIFIC" TOOL

More than 14,000 in use. You must have something good when you have that many satisfied customers. You, too, will be a "Pacific" booster as soon as you have loaded a hundred shells.

Super Tool without automatic priming device $36.50

Standard Reloading Tool 29.50

"PACIFIC" SCALE

The **"Pacific" Powder Scale** is made especially for reloaders. It is super-accurate—it is sensitive to one-tenth of a grain.

Complete with weights, **$8.50.**

PACIFIC GUN SIGHT CO.
353 Hayes St., San Francisco (2), California

PACIFIC GUN SIGHT CO.

FECKER TELESCOPE 1⅛"—10X, VERY good, $50.00. Outboard Motor, Neptune, 9.5 H.P. alternate firing. Less than 10 hours, very good $185.00. Hazen Hyland, 504 Lakeshore, Beaver Dam, Wisconsin.

SOUND PROJECTOR—AMPRO PREMIER Twenty with speaker, like new; $495.00. F. J. Harcar, 59 Grand St., Trenton 10, N. J.

REMINGTON M121A .22 L.R. RIFLE. VERY good, with excellent Weaver 33OS scope and sling $55.00. R. D. Beeman, Orinda, California.

70-257 WEATHERBY MAGNUM, SCOPE, case, tools, dies, ammo. very good $300.00. Member. A. M. Dryden, 900 So. Broadway, Santa Maria, California.

SEVERAL THOUSAND ASSORTED HIGH speed tools: End mill, slot cutters, side milling cutters, and many other types. Worth over $2,000.00, will sell the entire lot, only $500.00 cash. Hudson Sporting Goods Company, R-52 Warren St., New York 7.

COLT SINGLE ACTIONS, 5½", 32-20 V.G. $60.00, 44-40 excellent $65.00. .45 Bisley v.g. 4¾", ramp sight $70.00. Archie Fisher, Montville, Connecticut.

MANNLICHER-SCHOENAUER 8MM. SPORTer half-stock 20" barrel. Factory carving floral design on forearm, $150.00. George Pace, 605 29th Street South, Arlington, Virginia.

SPERM OIL, FINEST, EIGHT OUNCES $1.00 Postpaid. S. Levitt, 307 Sterling Street, Brooklyn, N. Y.

WALTHER .22 AUTOMATIC PISTOL, MODel PP, excellent $100.00. Colt Woodsman, 6½" barrel, target model, Pointer grips, new $80.00. Custom built 270 on 1937 Mauser action, Texan scope, Echo mounts, pistol grip stock, test fired only, perfect $225.00. F. Hesemeyer, 1739 Cayuga Avenue, San Francisco 25, California.

NEW THOR 6" BENCH GRINDER $42.50. New 1" 6 power Unertl scope recoil spring $52.50. Clyde Walser, General Delivery, Newton, North Carolina.

MERKEL, OVER UNDER RIFLE 8x60R, very good $300.00. Zeiss Zielsechs scope very good $100.00. Oigee Luxor Hell, 4X scope very good $75.00 John Bigler, 27 Sherman Ave, Washington, Penna.

WHAT DO YOU WANT IN GUNS? WE probably have it. Write for list. Sporting Goods Dept. Miller Hdwe Co. Inc. Princeton, Indiana.

PARKER D.H.E. 12 GA. 28" BARRELS SST-AE-F.M. excellent $250.00. Winchester 21-12 ga. 32" F.M. SST-AE-B.F. good $225.00. Thomas Mairs, Box 502, New Hartford, N. Y.

CARTRIDGE COLLECTORS—LIST #6 CONtaining over 600 items. 20¢ stamps or coin. Frank Davis, 47 Robinson St., West Englewood, N. J.

IN BRAND NEW FACTORY CARTONS. HI-Standard 4½" or 6-¾" barrel. H.D.M. model, list price $51.17. Sell $45.00. Marlin 39A 22 rifle, list $50.45, sell $45.00. S&W, M.P. 38 special revolvers 4, 5, or 6" barrels, list $56.50, sell $51.00. S&W K.22 Masterpiece, list $65.00, sell $60.00. Peter Latta, 315 Jackson Avenue, Endicott, N. Y.

PARKER VHE, 30 F&F, 16 GA. 2-¾" CHAMbers, perfect, new CPG stock with recoil pad; Hard leather mutton leg case, $200.00. Eugene Lange, 1411 Morrison St., Madison, Wisconsin.

HI-STANDARD H.D.M. 4½" PERFECT, $43.50; M218 spotter, excellent $16.00; 52 Win. Johnson barrel v.g. $65.00; B&L 6x30, case, v.g. to excellent $55.00; B&L 7x35 Zephyr, coated, case, perfect $115.00; Unertl 1¼" 14X coated, excellent $62.50; Unertl 1½" 12X coated, excellent $72.50; 10X Targetspot perfect $60.00. Vic Breneman, Hershey, Penna.

PRATT & WHITNEY SUPER MICROMETER capacity 0-24" reads directly to .00005" $100.00 F.O.B. Ithaca. D.S. Perry, 450 No. Aurora St., Ithaca, N. Y.

70 WINCHESTER 30-06, G&H QUICK DEtachable 330S 48 WJS v.g. $175.00 M. O. H. Primosch, 616 East 128th St., Cleveland, Ohio.

.257 ROBERTS MANNLICHER-SCHOEnauer, high velocity half stock. Johnson barrel excellent. Fixed receiver sight and ramp, with excellent 8x1" Unertl scope coated. Perfect Varmint-Deer combination with 120 cartridges, $196.00. M. W. Seitz, R.F.D. #2, Sykesville, Maryland.

---

7 x 50 BINOCULARS

WITH COATED OPTICS

$58

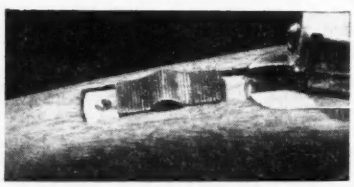
Weight 36 oz. Height 7 in.

Also Available with uncoated optics ... $48

These magnificent 7x50 prism binoculars have the brilliant luminosity, precise clarity, and wide, undistorted field of view obtainable only with a large glass having hard coated lenses and prisms. Because 7x50 glasses give the highest performance obtainable they are now the official choice of the Army, Navy and Marine Corps. Why be satisfied with a smaller glass when you can now have a brand new coated 7x50 at ⅓ *of the usual price.* Lifetime construction. Lightweight aluminum body. Ultra-precise optics that prompt users to remark, "The finest glass I have ever looked through." Sold with a guarantee of complete satisfaction or money refunded. Leather carrying case and straps included. Price, only $58 plus 20% Federal tax. We pay the shipping cost. Immediate delivery. Supply limited so don't delay.

BROWNSCOPE CO.
Dept.3A, 24 West 45th St., New York 19, N. Y.

SHOOTERS



YOUR *FINE* RIFLES
Can be made even finer—with our new shotgun-type safeties!

Take your choice

Mounted as shown above: Springfield, $22.50; Mauser, $20.
Mounted on side behind bolt: Springfield, $17.50; Mauser, $14.75.
All models completely lock bolt sear & trigger. Locking trigger is important as you know immediately if safety is on. No time lost trying to shoot with safety locked. Red dot shows in "off" position. Temptation to carry rifle with safety off is eliminated as thumb rests naturally on safety button. *It is quiet*

Gunsmiths:
Send us your actions for safety installation and special dealers rates. Prompt service.

ANDERSON GUN SHOP
1203 Broadway Yakima, Wash.

★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★

CUSTOM REBARRELING

Springfield, Enfield, Mauser
All popular American calibres
Discounts to gun dealers
Write for free list
LANSDOWNE SPORTS, Lansdowne, Pa.

★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★

Custom REBLUING

Not just a reblue job but a De Luxe finish!
All Pistols or Revolvers $6.00
All Rifles, $7.50—All Shotguns, $8.50
Nickel or Chrome Guns blued, add $2.50
Send guns express prepaid.
No work accepted after March 27 until further notice
BERGEN GUN SHOP 37 West Maple St. Allendale, N. J.

MILL-ROSE BRITE-BORE

Specialized Gun Cleaning Rods and Brushes

—See their many features at your dealers!

The Only Rod With The Protective Safety Stop

THE MILL-ROSE COMPANY, Dept. AR.
1985 East 59th Street, Cleveland 3, Ohio

✦ BEDFORD BUGLE ✦

SHOWS WORLD'S RAREST GUNS

No. 9—Finest pistols, swords, all nations.
No. 10—All kinds. Shooting Muzzle Guns, Experimental, Foreign, Royal, Superb Inlays, Martials, World's Finest and Rarest.
Free; send self-addressed stamped LONG envelope with number marked.
WANT: Finest American and Foreign, Modern or Muzzle Loading, Foreign Doubles, Mausers, RAREST COLTS. Describe and Price.

MILLER BEDFORD
Rare Gun Crossroads of America
NEW LONDON OHIO

COMPLETE BINOCULAR SERVICE

Hot hard coating, collimating, adjusting, repairing. Write for free price list.

Robert S. Thomas
Box 81 Silver Spring, Md.

GUNS—AMMUNITION—FISHING TACKLE—New guns. Hi-standard 4½ or 6¾" barrel .22 caliber $49.50. Hi-Standard 5" .380 caliber $52.50. S&W K.22-32 or .38 Masterpiece $65.00. S&W Mil. & Police .38 $56.50. New H&R "922" 9 shot .22 pistols 2½, 4 or 6" $24.75. Hy score pellet pistol $19.85. Crossman pellet pistol $19.80. Crossman 20 shot repeater pellet rifle $22.50. Crossman single shot $19.80. Red Head brown leather holsters to fit all pistols $3.00. Winchester M75 target rifle $57.50. Remington 521T target rifle $34.50. Winchester M63, .22 caliber auto with Weaver G-4 scope $75.00. Winchester M12-20 gauge $78.50. Remington M11-16 gauge $94.00. Remington Sportsman 16 $94.00. Used Guns: Mauser 98—8mm. sporter with custom Monte Carlo stock Lyman 48 rear, excellent $100.00 with 20 shells. Savage 99 EG 300 with Lyman Alaskan 2½ Lee Dot scope, excellent $175.00, with 20 shells. Winchester M97-12 ga. with new Poly Choke, very good $55.00 Winchester M12-12 ga. very good $60.00. P.38 automatic, excellent $48.00, with 50 shells. Belgium Browning auto. 9mm. good $38.00, with 50 shells. Ammunition: .25 auto. $5.00 per 100. .32 auto. $6.00 per 100. 9mm. $4.25 per 50. 8mm. 98 Mauser $4.00 per 20. Excellent stock of high grade tackle and sporting supplies. True Temper, Heddon, South Bend, Montague, H Ibbotson, Shakespeare, rods, reels etc., write for list at bargain prices. All merchandise guaranteed. No C.O.D. Lakeland Sporting Goods, Fort Atkinson, Wisconsin.

6½" WOODSMAN, $50.00. 4½" H-DM $40.00. S&W .22/10" perfected, $37.50. Satisfaction. E. C. Quattlebaum, Sr., Tyler, Texas.

ONE ONLY USED GRIFFIN & HOWE 30-06 Lyman 48 rear sight excellent except for some scratches on front sight, $110.00. One only J.A.A. sport model .22 S.S. excellent in, very good out, $25.00. Stamp for list of new and used guns, also Schutzen rifles. One only model 52 standard Parker Hale rear sight with N.R.A. case cleaning rod detachable cheekpiece $75.00. H. E. Roehrs, Box 45, Closter, N. J.

HARPERS FERRY FLINTLOCK MUSKET 1812, good $60.00. Kentucky rifle, octagon barrel, good, $50.00. U.S. model 1861 musket, good $25.00. Gentleman's diamond ring, about .35 carat, $200.00. William J. Rittinger, Box 762, New Federal Bldg, Pittsburgh 30, Penna. Member.

KRAG RIFLE AS ISSUED, VERY GOOD $35.00. 1886 Winchesters: .45-70 very good $40.00, another .45-70 good $30.00, another .38-56 with 40 cartridges, $30.00. Winchester 92 .25-20 good, cartridges, $35.00. Thomas Hastings, Bryn Mawr, Pennsylvania.

45-90 MARLIN, NEW IN GOOD CONDITION, best offer takes it Guaranteed money back if not accepted. Marion Halbesleben, Breckenridge, Colorado.

8MM. MAUSER 7.7MM. AND 6.5MM. HIGH velocity sporting ammunition $4.00 per box. Other foreign ammunition. Write your needs. E.A. James, P. O. Box 1928, Phoenix, Arizona.

$1.00 PER 100; 30-06 BRASS CASES. .45 AUTOMATIC brass cases 75¢ per 100 Weil's Curiosity Shop, 20 So. 2nd St., Philadelphia 6, Penna.

NEW—REMINGTON 513 SPORTERS WITH Stith Bear Cub scopes mounted by Stith .22-22 mounts range tested $98.00 value my price $87.50. .45 Colt automatic with two extra barrels small dent in one barrel barrel very good not Gov't property, $39.50. I am closing out six Unertl 14X scopes with mounts and bases 1½ optics at $74.50. My Browning (lightning grade) over & under shotguns will be ready for delivery March 10th. R. S. Tellman, Belle, Missouri.

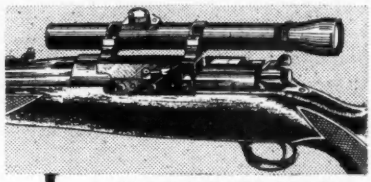
.257 CZECH MAUSER 1937. BISHOP STOCK, Johnson barrel, K4 scope. Test fired only excellent $170.00. R.B. Hotchkiss, 533 W. Taylor St., Kokomo, Indiana.

8MM. (7.92X57) ALSO (8X60) MAUSER 98 custom Big Game ammunition, 170 grain SP. 20¢ each. No packing charge. No C.O.D.'s. J. R. Loomis, 125 Melrose, Peoria, Illinois.

PERFECT—COLT SUPER .38 $55.00—COMmercial 7.63 Military Mauser with superb finish and blue $65.00. Excellent to perfect Astra "400" $35.00. R. W. Krohmer, 1609 Mahantongo St., Pottsville, Penna.

FACTORY NEW GUNS PREPAID. WINchester 52 sporter, Lyman 48F $138.00 S&W K.22 and K.38 Masterpieces $65.00. Hi-Standard HD-M's 4½ or 6¾" $51.17 with extra magazine. Colt O.M.T. .22's or .38 H.B.'s $75.00. Colt Official Police .22's or .38 Special $65.00. Arthur Hess, Eastford, Conn.

"In the use of BLU-BLAK the fact that the hardened receivers take the color as well as do the barrels . . . and that the entire gun is more beautiful than a factory finish is particularly gratifying."
WM. SCHUMAKER, Gunsmith
See Page 70 Chewelah, Wash.



REBARRELING
30/06-300Sav.270-257-
250/3000-220Swift
JAEGER SAFETIES

JAEGER
QUICK DETACHABLE
SIDE MOUNTS . . .
Can be attached or removed in a few seconds without the use of tools or coin.
LARGE SELECTION
SCOPES, MOUNTS AND SIGHTS
JAEGER SPORTERS • Springfield or Mauser Action

Send for Catalog

PAUL JAEGER
CUSTOM GUNSMITHING
JENKINTOWN • PENNA.

Sportsmen's Specials

U. S. NAVY 7 x 50 PRISM BINOCULARS
WITH COATED OPTICS

Used but in Excellent Condition
$95
Complete with leather carrying case and sling.

Universal, 6 x 30 Navy Prism Binoculars, used but in excellent condition, complete with leather case and sling straps. $42.50
With Coated Optics, $10 Extra.

DUCK DECOYS

$13.50 DOZEN
Victor Veri Lite Decoys of durable fiber, kapok filled Blue Bills. Pin Tails, Red Heads and Mallards.

PERCUSSION CAPS

REMINGTON SHUR FIRE #11 $3.00 PER 1000
Value $4.50

REMINGTON #57 SHOT-GUN SHELL PRIMERS $7.50 PER 1000
Value $12.00

Special 7 x 50, All Leather Prism Binocular Cases, brand-new, will fit 7 x 50 or 10 x 50 Prism Binocular. Value, $15.00. Special $7.50

10 gauge new primed empty shell cases 2 9/16 inches..... $3 PER 100

Send coin $1.25 for Third Annual Edition of Gun Digest together with our complete catalog of new and used guns, ammunition, rifles, binoculars and powder flasks. Our separate catalog 25¢.

PUBLIC SPORT SHOPS
11 S. 16th St., Phila. 2, Pa. No COD's

ARMY FIELD Telephones

NOW as low as $7.50
used, but in good serviceable condition. (originally cost govt. $39.90 each)

Job-Proved for scores of uses:
- firing line to target
- ranches
- camps
- hunting lodges
- workshops

PERFORMANCE EQUALS PRESENT-DAY COMMERCIAL TELEPHONES . . . UP TO 17 MILES!

Anyone can install this handy, dependable telephone! Just hook up terminals to any two-strand wire; several phones on same line if desired. Operates on standard flashlight batteries with no external power required. Compact . . . rugged . . . portable. EVERY PHONE GUARANTEED.

Two phones comprise a set. Order as many as you need—in pairs or singly. Each phone delivered complete with hand generator and self-contained ringer.

USED—good, serviceable condition. Per pair..... $14.95
NEW—with heavy canvas case. Per pair..... $25.50
NEW—with leather case. Per pair..... $28.50
NEW OR RECONDITIONED—with cases soiled, etc. Performance equals new telephones. Per pair..... $21.50

Single phones ½ of above prices

HANDSETS. *New* Field Telephone Type. $3.60 postpaid.

EXTRA WIRE. Genuine 2-strand W-110 Army Field Wire. New. 308 ft. $3.50; ½-mile reel, $10.50; 1-mile reel, $16.00. (½-mile and one-mile reels sold only with purchase of telephones)

WRITE FOR FREE FOLDER ON FIELD TELEPHONES

All Shipments FOB Sacramento. No COD. In California, add 2½% for sales tax

SEND CHECK OR MONEY ORDER LORIS SALES
P.O. Box 1896, Dept. C Sacramento, Calif.

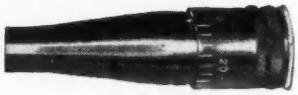
PEEP SIGHTS
for KRAG RIFLES — $2.00. For Enfield $2.00; Mauser $4.50; Springfield $4.50. Krag Barrel Receiver Fillets, 65¢. Fillets for Springfield, 65¢. Springfield Sporter Butt Plates 70¢. Grip Caps 40¢. Satisfaction or money refunded.

SPRING ADJUSTABLE BARREL BANDS
for Krag, Enfield and other rifles. 75¢ each.
LEROY RICE
316 Masonic Temple
Elyria, Ohio

REBARRELING
257, 270, 300 Sav., 30-06
GUNMAKER'S Brand Shooter's Supplies
Improved Bluing Salts—Bluing Tanks
All work guaranteed
KESS ARMS CO.
1004 W. Center St. Milwaukee 6, Wis.
Send address for catalog

NEW INSTALL-IT-YOURSELF "VARMINT MASTER" and "TARGETEER" HUNTING SCOPE ATTACHMENTS 6X and 8X

"VARMINT MASTER"



"TARGETEER"

1. Threading of scope tube not necessary for installation of new "VARMINT MASTER" attachment.
2. Complete instructions for installation of each attachment.
3. 1¼" Objective.
4. Coated Lenses.
5. Improved focusing adjustment.
6. Perfect alignment of attachment on scope.

PRICES for the new Install-It-Yourself "VARMINT MASTER" are as follows:

New Weaver J 2.5	$17.50
29S, 330, and 440 Weavers	17.50
K-2.5 and K-4 Weavers	18.50
Alaskan Scopes	20.00
Texan Scope	20.00
G-88 Scope	20.00

Price for "TARGETEER" attachments for all the above scopes $25.00.

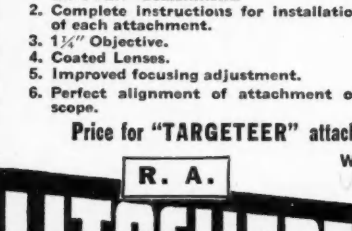
WRITE FOR NEW LITERATURE ON ALL THE ABOVE ATTACHMENTS

DEALERS—Write for quantity Purchase discounts.

R. A. LITSCHERT

WINCHESTER INDIANA

K-22 *Masterpiece*



NOW IN PRODUCTION

$65.00 Price, delivered

ORDERS ARE FILLED AS RECEIVED on a "First Come first served" basis.

We carry a complete line of guns for game and target shooting. Our stock of spotting scopes, target and hunting scopes is complete. Ask for list of components, loading tools, and other items of interest to the sportsman.

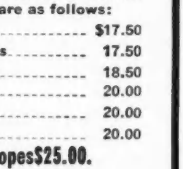
GOPHER SHOOTER'S SUPPLY

FARIBAULT MINNESOTA

Quality Sporting Goods — Wholesale & Retail

MEEPOS SPEEDLUBE

FULLY GUARANTEED



BULLET SIZING AND LUBRICATING

Put bullets in top, pull lever, bullets drop out at bottom. With your order include bullet make and number or sample bullet if possible. Die set included $18.50 Extra Dies $3.50. Bullet Punch 75 cents. F.O.B. LOS ANGELES

MEEPOS RELOADER

Sizes, decapps, recapps and expands cases with one stroke of the lever. Improved model, fully guaranteed. Complete F.O.B. Los Angeles. For one caliber $30

Send for Free Circulars

THE MEEPOS MACHINE SHOP

135 NORTH WESTERN AVE. • LOS ANGELES 4

POWDER

#4895

In Original G.I. Containers 150 lbs. only $30.00 F.O.B.

75¢ lb. or 10 lbs. $6.75 Hercules & DuPont $1.75 lb.

Primers 60¢. Good Stock Speer and M.G.S. Bullets. A Few Sisk. Give Second Choice.

B. E. HODGDON Merriam, Kans.

FRANK LE FEVER & SONS

Custom **GUNSMITHS**

Specializing in SPRINGFIELD, ENFIELD & MAUSER Sporter Stocks—Plain or with Cheekpiece feature, oil finish, checkered and ready to fit your Action.

REMINGTON Model 10 & 29 Stocks. Complete Military and Sporter CONVERSIONS. GENERAL REPAIRS to all makes of guns.

Frank Le Fever & Sons

(50 years in business)

R. D. 4, Frankfort, New York

"LIFETYME" PISTOL CARTRIDGE DIES

LONG LIFE - NO SCRATCHING - NO GALLING

USERS REPORT 250,000 CASES—and still running

MANUFACTURED BY

Carbide Die Service

CARBOLOY

(TRADE MARK) CEMENTED CARBIDES

71 N. MICHIGAN AVE. PASADENA 4, CALIF.

EADS SCOPE SAFETIES

Springfield, Mauser & Win. 54 LOCK BOLT DOWN, Natural Position, Easy Thumb Action, Faster, Safer, Quality. Order direct or through your dealer. Price $5.00

EADS MFG. CO.

Triggers, Gunsmithing, Bluing

2502 Larimer St. Denver 5, Colo.

THE FOLLOWING ITEMS, WHILE slightly used are positively in brand new condition, inside and out: Winchester model 70 Hornet, Target grade, Lyman 48WH & 77, $160.00. Remington 521-T Junior special, $35.00. Remington 121A, $40.00. Remington model 11A automatic shotgun, 12 gauge, 30", latest Poly Choke, $95.00. Ithaca model 37, choice of 20x28 full or 12x28 modified, $70.00. Unertl 1"-10X, latest model, coated lenses, with mounts, $50.00. Argus Super grade spotting scope, 20X, coated lenses, latest model, $55.00. Norman-Ford Texan, $42.00. Bausch & Lomb, 6x30, Lightweight, central focus, coated lenses, with case & straps, $120.00. Smith & Wesson, Military & Police, 4", .38 special, $48.00. Hi-Standard 6-¾", HDM, $49.00. Also the following items perfect inside, excellent outside: Savage .23AA, .22 L.R., $39.00. Reising General model 65, .22 automatic rifle, (regular $65.00), $32.00. Savage 19H Hornet, scope bases, no rear sight, $75.00. Bausch & Lomb, 19.5X prewar spotting scope, $49.00. Lyman Junior Targetspot, prewar, 10X, complete, $49.00. All items guaranteed to be as represented to the extent of refunding your remittance less any shipping charges I may have paid. Please send check or money order. (No C.O.D.'s) Robert Haelig (Life Member since 1931), Boundbrook, New Jersey.

AUTOMATIC PISTOL MAGAZINE CLIPS for sale. Over 300-Luger, P.38 Walther, Mauser, Remington, Tokarev, etc. State needs or send 10¢ coin for complete list. Sid Aberman, 5650 Marlboro Road, Pittsburgh 17, Penna.

ALASKAN SCOPE, REDFIELD BASE, AND Enfield sporter, perfect $130.00; K.22 with holster, perfect $70.00. Russell Johnson, Laurium, Michigan.

WEAVER K2.5 SCOPE $27.00; K4 $32.00; K6 $34.50; each perfect, coated lenses, Crosshairs, click adjustments; (also friction lock adjustments or post reticule). Texan $35.00; Bear Cub Standard $28.00; Bear Cub deluxe $39.00; each coated, perfect Argus Super grade spotting scope 20X, latest perfect condition. $50.00; Unertl right angle 24X, perfect, $70.00; Unertl 1½" target, perfect, $55.00; Weaver J2.5, excellent, $16.50; J4 excellent $20.50; few Edwards-Litscherts scope attachments. Want: Foreign rifle scopes; Winchester .220 heavy Swift, match target Woodsman; late readers write. Jim Armstrong, 805 East Grove, Bloomington, Illinois.

NEW BELGIUM MADE FABRIQUE NAtionale Mauser actions, Speere bullets, powder, primers, loading tools, very complete line of sporting goods. Stamp for description and prices. Clark's Sport and Hobby Shop, Clear Lake, Iowa.

NEW BALLBEARING CAPACITOR HOOVER motors, 110-220 volts. ½ H.P. $39.75, ¾ HP $52.75, 1 HP $64.75, F.O.B. New Orleans. Pelican Machinery Company, 928 Howard Avenue, New Orleans, Louisiana.

CLOSING OUT THE FOLLOWING: WEAVER 330SP with Stith mount for 70 or 99, brand new, $29.00. Weaver 440SP, Stith mount for 99 or 70, brand new, $34.00. Stith mounts for Weaver 330 or 440 and Savage 99 or Winchester 70, new, $9.00; same for 70 and Alaskan, $11.00 Weaver 1X shotgun, no mounts, excellent, $18.00. No C.O.D.'s please. Robert Haelig, Boundbrook, New Jersey.

BULLETS: S.P. AND H P. 8MM. AND .25 and .30 Jap, in various weights. Primed cases on hand in the above caliber. Also loaded cartridges. Write for free list. J. G. Wilkinson, 1209 Lincoln Avenue, Peoria, Illinois.

EXPERT GRADE REMINGTON 31 SKEET pump. 12 gauge, ventilated rib, Cutts, excellent, $400.00. Sporting Goods Dept. Miller Hdwe. Co. Inc. Princeton, Indiana.

ANNOUNCING NEW CATALOG #27 DEscribing over 5000 bargains 40¢. Brand new 45-70 Springfield $32.50. Plenty ammunition $2.50 box. Springfield 1903 stocks $4.50. Stripped receivers $14.50. Springfield Service rifle, excellent $68.50. Krag sporter, excellent $66.50. G-43 semi-automatic, excellent $56.00. .22 engraved Wurfflein SS target, very good $78.50. 44-40 Colt Burgess, good $58.00. Colt US Musket, perfect $42.50. .45 Colt 1917, excellent $58.50. .45 automatic, new $62.50. .44 Special S&W 6½", excellent $62.50. 45 Schofield, silver and gold finish, good $62.50. 36 Manhattan Navy 1859, silver and gold, good $58.50. .22 S&W 1891 target, excellent $42.00. Many Frontiers, Automatics, Kentucky rifles. John Smith, Rambler Avenue, Runnemede, New Jersey.

FREE "EXPRESS PREPAID" LIST

New Hi-Stan, H-D Military 22 Cal. Pistol, 6¾ or 4½-inch. Heavy Barrel. Walnut Grips (Free Clip with your H.D.M.)	$51.17
With Thumb Rest Grips	56.17
New S&W 38 Special M&P Rev. 2-in. barrel	56.50
New Colt's 38 Super Automatic Pistol	65.00
New I J Supershot Sealed Eight 22 Rev.	34.25
New Marlin M.39A 22 Cal. Rifle	50.45
New Remington M.513 Target Rifle	53.50
New Remington M.521T. Junior Target	34.95
New Winchester M.75 Target Rifle	53.50
New Stevens M.416-2 Target Rifle	53.20

ADRIEN J. GRENIER, North Grosvenordale, Conn.

50¢ EACH. NEW GOVERNMENT FOLDING rain cloak. Slip over your entire body. Package folds 3½"x7". Fine for fishing, camping, hunting. Parcel post free. Weil's Curiosity Shop, 20 South 2nd St., Philadelphia 6, Penna.

WINCHESTER MODEL 52, HEAVY BARREL #5234, Lyman 77 front, 48 F.H. rear, $105.80. Model 52 standard barrel #5227, round top receiver, $79.50. Winchester model 70, target grade medium weight barrel, 270 caliber or 30-06 Gov't Lyman 77 front, 48 W.H. rear, $168.45. All factory packed. Hudson, R-52 Warren Street, New York 7.

WAGNER HANDLOADS — BACKED BY 25 years of loading experience, produce results on game or targets. No inflated prices, best components only are used. Prices per hundred. 7.7mm. Jap 180 gr. S.P. $13.50. 8x57, '98 Mauser 150 or 170 gr. $13.50. 9mm. Luger. 125 gr. lead $6.75. Also .22 Hornet, 218 Bee, .219 Zipper, .220 Swift, 22-250, 25-20, 25-35, 250-3000, 257, 270, 7mm, 30-30, 300 Savage, 30-40, 30-06, 35 Rem. .38 Special, .45 A.C.P. List on request. Wagner Gunroom, Ashland, Ohio.

10-KRAGS AS ISSUE, SLINGS. OUTSIDE good or better. Inside; 1-very good $40.00. 3-good $37.50. 3-fair $32.50. 1 good, short safety, $32.50. 2-poor $30.00. These poor barrels are better than lots of game guns. S&W .32 Long, very good 3¼" barrel, $42.50. German scope, 6X D.O.W. L.E. Lemke, Corydon, Iowa.

WAFFENFABRIK MAUSER 8X60 MAGNUM sporter, semi-octagon ribbed barrel, hinged floor plate, D.S.T., very good $125.00. Mannlicher-Schoenauer 8mm. excellent bore, good outside $110.00. Savage 99 .22 High power, takedown, custom reblued, very good bore, 40 cartridges, $65.00. Dienstglas 10x50 binocular, good, case $75.00. Nash-Kelvinator 6x30, coated, excellent, case $60.00. Rodenstock 6x21, central focus, very good, case $50.00. E. R. Thomson, 23 Pinckney, Greenville, S. Car.

CALIBER .257 RIFLE PREWAR MAUSER action, 24" barrel issue stock, Redfield 70 rear, ramp head, front excellent $95.00. Frontier 38-40 —5½" blue, good with holster $37.50. Colt .38 Super-auto excellent with 100 cartridges, $60.00. Fred Kranz, Sauk Centre, Minnesota.

8x57MM. AMMO. 180 GR. LEAD, BOX $3.00; 170 gr. SP $3.50. 23D K-Hornet 440, 2 Lee Dots perfect $87.50, 30-06 Mauser, ramp front, Redfield rear, new, military stock $75.00. Get that Featherweight rifle barrel fitted now for spring $35.00 up in following calibers, .22-250, 250, 257, 270 Springfield as issued, pistol grip stock, very good $60.00. Want 257, 30-40, 30-06 cases. Ray Morlan, 1020—24th Avenue, Rock Island, Illinois.

WINCHESTER 64, 219 ZIPPER, 93 CARtridges, factory new, $87.00. Fecker 1-1/8" scope, 8X, mounts, ¾" Dot, coated, excellent, $55.00. C.S. Dolhonde, 323 Beverly, Baton Rouge, Louisiana.

WINCHESTER 70-06 NATIONAL MATCH, new $165.00. Ballard-Marlin double-set new 52 standard barrel scope blocks beautiful figured dark long forearm high rolled cheek excellent $67.50. Crosman Air pistols $19.80 new, rifles same. Walter Good, Sporting Goods, Ashland, Ohio.

REMINGTON 241, SHORTS, EXCELLENT $45.00; 6½ Woodsman, excellent $60.00; Issue Enfield with new Johnson barrel, excellent, $27.50; Zeiss 8x24 binoculars, inside excellent, outside worn, $40.00; Gewar 1941 semi-auto good, $40.00; .300 Savage 99G with 29S scope finish very good, otherwise excellent, $75.00; National Graflex with F3.5 Tessar excellent $75.00; S&W Military Target caliber .45 ACP excellent $65.00. Wanted: .22 caliber Walther pistols. Olaf Otto, Jr., 3804 Abercorn St., Savannah, Georgia.

LYLE GUN FOR THROWING BREECHES. buoy 2½" bore, with about 30 regular and practice projectiles, without line. With base and elevation adjustment, very good condition (mechanically perfect), $150.00. Robert Haelig, Boundbrook, New Jersey.

FACSIMILE REPRODUCTION OF XL BLUE Jacket Pistols and Revolvers Poster. Mailed 35¢. No stamps. Smith, 61—12th Street, Hoboken, New Jersey. 4-48.

MILITARY RIFLE AND PISTOL PARTS. Mauser, Carcano, Holland Mannlicher, some Luger, .45 auto, Springfield, Enfield. Stamp for price list. Lovell's, 1443 Berteau, Chicago, Illinois.

KILBOURN 22 K-HORNET

Special notice to crow and chuck shooters. We will return all Hornet rifles converted K-Hornet within two days after receiving them, during March, April, May and June. $5.00; rechambers your Hornet to this most efficient and economical vermin shell. Increases range at least 50 yds. Hight speed, yet mild report, keeps land owner your friend. Win. & Sav. magazines altered for pointed bullets $2.00 R-2 and other Lovells rechambered to K-Lovell $5.00; Win. S. S. Breech blocks bushed, firing pins altered $7.00.

Lysle D. Kilbourn (Originator) Whitesboro, N. Y.

GET 'EM THE FIRST SHOT!

REDFIELD

RECEIVER SIGHTS ON WINCHESTER RIFLES

REDFIELD NO. 70 SIGHTS are the answer to shooters' demands for a receiver sight with truly accurate and dependable micrometer click adjustments. Combines simplicity, ruggedness and accuracy in the highest degree...the most practical and effective sight made for Winchesters. See your dealer or write for free folder showing this and other REDFIELD precision sights...There's a REDFIELD SIGHT made especially for most standard rifles.

REDFIELD GUNSIGHT COMPANY
3113 GILPIN ST., DENVER, COLORADO

FECKER
RIFLE SCOPES

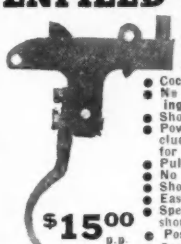
- **For match precision target shooting,** the 1⅝" and the 1¼" —powers from 6X to 30X.
- **For small game** the Woodchucker in 4.5, 5.5 and 7X.
- **For spotting, rifle and pistol,** the comfortable, compact 60° spotting scope.

Catalog is yours for the asking

J. W. Fecker, Inc.
2016 Perrysville Avenue
Pittsburgh 14, Pa.

ENFIELD OWNERS

Here is the SPEEDLOCK TRIGGER you have been looking for



$15.00 p.p.
Pat. App. For

- Cocks on opening.
- No alteration of bolt or cocking piece whatsoever.
- Short striker travel.
- Powerful main spring included. Full sear engagement for safety.
- Pull adjustable 3 to 6 lbs.
- No back slap or creep.
- Short crisp pull.
- Easily installed yourself.
- Specify whether standard or shortened magazine.
- Positive Safety operation.
- Springfield & Mauser Speedlocks Available Now.

Also trigger mechanisms to give short crisp trigger pull on Mauser 98, Springfield and Enfield. Replaces military trigger with no changes.

All operating parts hardened for long service and smooth action.

DAYTON-TRAISTER CO.
34 SE 66th Ave. Portland 16, Ore.
Dealers and gunsmiths write for discounts.

BULLETS BULLETS BULLETS

.22, .228, .25, .270, 7mm, .30 & 8mm bullets in stock for immediate shipment. A fair selection of weights and makes but send stamp for up to date list and prices.

LOADING TOOLS—Pacific Standard $28.75. Pacific Super $35.75. Universal Model A—$47.50. Universal Model B—$55.00.

POWDER MEASURES—New Lyman Model 55—$10.50, Postpaid. B&M Visible Measures—$13.00, Postpaid. Saeco Tru-Speed with stand—$16.00, Postpaid.

PACIFIC POWDER BALANCES—$9.00, postpaid.

LYMAN MODEL 45 Lubricator & Sizers $13.00, Ppd.

"COMPLETE GUIDE TO HANDLOADING—$8.00, Postpaid.

Many other items in stock such as primers, powders, primed cases, scopes, mounts, Potter Furnaces, Wilson Tools, etc. Send stamp for complete list of Reloaders and Shooters Supplies.

JIM WILKINSON, Rifle Ranch
Jerome Route • Prescott, Arizona

SOLID STEEL BAND RAMPS

Graceful—Racy Lines

A complement to the finest rifle. Matted ramp; beautifully finished and blued; slot will take Redfield blades, .600 to .650 diameters. ⅜"-½" or 9/16" high. **Ramp with hood $6.50. With 1/16" gold bead $8.25. Beads 3/16" or ¼" high.**

Discount to Gunsmiths

C. A. DAHL
5231 N. Winthrop Ave., Chicago 40, Ill.

RIFLE BARREL BLANKS

Made from Chrome Moly steel, 1⅛" dia., 27" to 28" long. Brinell hardness—270 to 300. Double Drawn for stress relief,—not lapped.

Unturned $17.50 Preturned $20.00

CASCADE SHOOTER'S SUPPLY
George Tonn Route No. 1 Hood River, Oregon

INVENTORS

When you are satisfied that you have invented a matter of value—write me, without obligation, for full information on what steps you should take to secure a Patent.

PATRICK D. BEAVERS
(Formerly RANDOLPH & BEAVERS)
Registered Patent Attorney
904 Columbian Building, Washington 1, D. C.

A Precision Instrument

POUR-MASTER CLEAR PLASTIC FUNNELS

Allows maximum flow of powder and clear vision. Wide bell mouth slips easily over outside of case. Indispensable for small cases, a decided advantage for all cases. Be sure to state exact caliber. Each funnel fits only one case.

Standard Model $12.50
DeLuxe Model $15.00

$1.25 Standard Calibers
$1.50 Odd Sizes

WA-MASTER RELOADING SCALE

"The WA-MASTER is rapidly becoming the most popular scale on the market for it has more valuable features than any other scale. The vertical indicator is easily read, and clearly shows variations of one tenth of a grain. It is light, yet rugged enough to weigh the heaviest bullet. Comes in a beautiful two tone crinkle finish, and packed in a strong light wooden box, which will serve to protect the scale when not in use. A set of bullet weights can be furnished."

Write for illustrated and descriptive folder.

MASTER MFG. CO., Sta. "O", Box 26, Cincinnati, O.

GENUINE PEARL & IVORY GRIPS ARE AGAIN IN STOCK

	Pair
COLT:	
Single Action Army	$16.00
New Service, Shooting Master	15.00
Army Spec., Officers Model	9.00
Official Police	9.00
Police Positive New Model	7.75
Bankers or Detective Special	7.75
Police Positive Old Model	6.50
Pocket Positive	4.00
.22 Woodsman	15.00
.45 Auto., .38 Super, .22 Ace	15.00
.32 or .380 Pocket Auto	6.50
SMITH & WESSON:	
Regulation Police	10.00
.44, .45 Model 1908, 1917	8.50
K .22, .38 Sq. Butt Model 1905	7.50
Model 1902 Round Butt	6.50
.32 H.E., .38 T.B. .32 or .38 N.D.	4.00

All grips are made from selected raw materials.

FRANK MITTERMEIER
Gunsmith Supplies
3577 E. Tremont Ave. New York 61, N. Y.

'Chuck Hunters!

THE NEW M & H PRECISION GRADE .22 CALIBER HIGH VELOCITY BULLET (JACKETED)

IMMEDIATE DELIVERY

45 grain	.224 inches	
50 grain	.224 inches	
55 grain	.224 inches	
Precision Grade (will not vary ½ grain)	per 100	$3.50
Standard Grade	per 100	$2.85

Free Sample on Request

Send mail orders to 512 Market St. Include 15c postage per 100.

M&H

SPORT STORES
512 Market St.
113 So. 16th St.
Philadelphia, Penna.
1709 Atlantic Ave.
Atlantic City, N.J.

SHOOTING GLASSES

HUNTING—FISHING
DRIVING—FLYING

Worn by America's Leading Shooters

30-day Trial. Also ground to your prescription. Write for booklet.

$3.75 to $15.00

W.N.BELZ, INC., Opticians, 2 E. 44th St., New York
Specialists in Fitting Shooting Glasses.

RUSTEPRUFE

A Nitro-Solvent and Rust Preventive in one application. Prevents Rust in any climate for indefinite periods of time. Used and endorsed by leading Shooters. Sold at Hardware and Sporting Goods Stores throughout the country.

WRITE FOR FREE PAMPHLET ON GUN CARE

RUSTEPRUFE LABORATORIES - SPARTA, WIS.

NEW M1903-A1 STOCKS

Immediate Delivery

Semi-Pistol Grip—Fits All 1903 Springfields
Send Remittance—Personal Checks Accepted

$3.95 Postpaid

DEMRICK SALES CO. 1424 Grant Ave. San Francisco 11, Calif.

Cartridge CASE TRIMMER

Precision built; trims case, cuts off neck, removes FA crimp, reams primer pocket. GUARANTEED. Special new prices to NRA members. Send stamp for folder.

G. T. SMILEY CO., Box 54, Clipper Gap Calif.

HI-STANDARD

Now manufacturing Model H-DM Automatic Pistol for .22 caliber R.F., and Model G-380 for .380 caliber C. F. Please place your order with your dealer now.

.22 AUTOMATIC

HIGH STANDARD MFG. CORP., 1811 Dixwell Av., New Haven, Conn.

PROFESSIONAL

FACTORY BLUING for the GUNSMITH, DEALER&SHOOTER.

Have that Bluing job done in a Professional shop and secure the type of work that assures repeating from each and every Customer. Strictly FIRST CLASS work in a modern equipped shop not limited to any one type of bluing method.

Attractive discount to Gunsmiths and Dealers, prompt delivery, save yourself time and money and be assured of the ultimate in fine bluing by writing to—

J. A. WINGERT, 124 W. 2nd St., Waynesboro, Penna.

SELL or TRADE

15 NEW STILL & MOVIE CAMERAS TO trade for good firearms any type. Farmers & Traders Exchange, Chittenango, N. Y. 3-48.

REMINGTON M-37, FACTORY SELECT, ¾" group, select stock, Marble Goss, perfect, $115.00 or will trade for Winchester M70 270 or 300 Magnum. W. F. Matthews & Son Gunsmiths, West Lafayette, Ind.

TWO WINCHESTER ENFIELDS EXCELlent. One, K4, blued $125.00. Other, Weaver 440 $90.00. Both, recoil and cheek pads, slings, cases. Herbert Spettell, 24 Chester Court, Brooklyn, New York.

RADIO-HALLICRAFTER SX-11, VERY GOOD condition, without speaker. Will trade for spotting scope or sell outright for best offer. Carl M. Wood, 1932—35th Place, N.W., Washington 7, D. C.

80 BASS AEKME ACCORDIAN. CASE, $200.00. Exacta model B camera, F2.8 Zciss Tessar, case, $150.00. Both good. Want .219 Donaldson Wasp bull-gun, 10x scope, tools, Components. J. S. Hart, 11626 Penrod, Detroit 28, Michigan.

SPRINGFIELD SPORTER K2.5. SCOPE safety, bolt altered, Bishop stock, checkered, oil finish, sling, OD swivels. Very good. Want Swift or Hornet or $150.00. R. I. Trissler, Box 256, Middletown, Penna.

BAUSCH & LOMBS. NEW. ZEPHYRS. 6x30, 8x30, 7x35 and 9x35. Leica IIIA chrome. F3.5 excellent $175.00. Want guns, cameras, antiques, & Walther PP or Olympic 22's. Smith Bros. Gun Store, Rochester, Penna.

NICELY FURRED NORTHERN BUFFALO hide from mature animal. Want model 70 Swift to 30-06. Dick Moore, Devils Lake, North Dakota.

375 H&H MAG. GEO GIBBS FARGUHARSON C.C.C., heavy action, new Hollywood barrel, original English stocks dies empties excellent, wood good. $200.00. M.O.Please. Member. J. O. Peebles, 1004 Ionia S.W., Grand Rapids, Michigan.

NIEDNER—SHARPS—BORCHARDT 318 BEE, Fecker small game scope; 100 rounds, excellent condition $135.00. P. Stahl, 115 State Road, Dowagiac, Michigan.

LYMAN, UNERTL, WEAVER SCOPES, ARgus spotters; Want Winchester M70 and rifle actions. Frank Foster, Box 983, Clovis, New Mexico.

WINCHESTER MODEL 70 CALIBER 300 H&H Weaver K2.5 Stith mounts new, $197.50. Winchester model 70 caliber 7mm. Lyman 48 rear gold bead front as new $117.50. Remington model 30 caliber 30-06 Redfield rear as new $117.50. Model 141 Remington caliber 35 new $111.00. Ithaca 12 gauge pump recoil pad new, $84.00. Dicksons' Dairy, Box 86, Fruita, Colorado.

NEW S&W K22 MASTERPIECE, $70.00; EXcellent plus Mauser HSC .32 auto, holster, box ammo, $41.50; perfect lightweight custom 12 hammerless double, by Bouquin Liege, Belgium, engraved action, checkered pistol grip, forearm, Monte Carlo stock, swivels, 28" mod. and full, Pachmayr pad, $175.00; Excellent P.38, holster, box ammo, $39.50; Savage O&U, 30" mod. full, excellent $90.00; Smith 20 28" M&F new $90.00, Remington M31 pumps, 28" full, 30" mod. new, $78.50. Want commercial high power rifles, or? John Summers, 617 North St., Cape Girardeau, Missouri.

SELL—GENUINE MAUSER 30-06, VERY good. Lyman receiver, $125.00. Sell or Trade—Johnson semi-automatic 30-06, perfect, $180.00. Want high grade double and modern high power rifles. John D. Sullivan, Jr., Franklin, Vermont.

2R LOVELL HI-SIDE WINCHESTER PAcific dies & shellholder components, excellent 438 Lyman $90.00, .38 Special O.M.L.B. King semi-rib v.g.—excellent $70.00. .357 Mag. Colt SA, excellent $95.00. K.W. Dech, QTRS 537-B. Maxwell Field, Alabama.

GUNS GUNS W&S GUNS GUNS

Division of
Farmers & Traders Exchange
Chittenango, N. Y.

CUSTOM DESIGN and ALTERATIONS of modern arms.

Also period restoration of antique arms.

W&S GUNS

SWAP OR TRADE, CAN USE ANYTHING in the gun line all types of ammo. wanted. 30-06 Mauser Radom 1936 custom sporter, $98.50. 30-06 Mauser Spandau 1918 custom sporter, $98.50. 30-06 Mauser 98 1943 custom sporter, $98.50. 30-06 Mauser 98 1939 custom sporter, $98.50. 250-3000 Mauser G29-40 1940 custom sporter $98.50. All Mausers are in new condition and test fired only, equipped with new barrel Redfield rears and ramp fronts. Custom C.P. stocks checkered pistol grips and completely reblued. 30-06 Winchester Enfield new custom high comb stock with Marble rear and front sights, very good, $88.50. 30-06 Enfield Eddystone, Leupold scope dot reticule, Echo Q.D. mounts, custom C.P. stock, inlaid white diamonds, new gun test fired only, $150.00. 30-40 Krag new gun Bishop stock inlaid white trim Redfield rear Lyman front, $95.00. 8mm. Czech VZ-24 Mauser sights and barrel as issued sporterized stock with recoil pad, excellent $40.00. Winchester 75 target, 99 front and 84 extention rear peep excellent, $48.00. Remington 121, .22 pump Winchester 4 power scope excellent $55.00. Remington 550 .22 auto. Weaver 333 scope excellent, $43.00. Springfield 87A .22 auto. Mossberg 4 power scope good, $36.00. Remington 31, 12 ga. F.C. 30" barrel, excellent $68.00. Winchester 97, 12 ga. mod. 30" barrel, very good, $55.00. Remington 11, 12 ga. 28" barrel, including Cutts comp. mod. and full choke tubes, white line recoil pad, good $79.50. Lefever 10 ga. double barrel 30" Damascus hammerless, Collectors item only, recoil pad, good. $30.00. Ithaca 10 ga. double 32" barrel hammerless fair, $35.00. Davis 410 double 26" barrel fair $30.00. Martini falling block action caliber 6.5mm. engraved receiver, double set trigger, Schuetzen stock with C.P. and thumb rest. Perfect 32" barrel octagon ¼ rib on barrel no sights, $60.00. 2 German combination shotgun and rifle beautifully engraved, both are hammer guns, C.P. stocks, collectors item only both go at $80.00. 8mm. K-43 semi-automatic 2-10 shot mags, new $45.00. Cash for good guns. All our guns are guaranteed to satisfy or money back. Downtown Gun Shop, 1836 Prospect Avenue, Cleveland, Ohio.

RIFLES: MILITARY MAUSER 1938 EXCELlent $33.00; Martini Schuetzen, DST, fair $35.00; Martini action $27.00; Engraved muzzle loader $80.00; Pistols: New Service .45 auto $40.00; C&B by Derringer $35.00; Free pistol $60.00; New Nydar $24.00; 4X Gerard $25.00. Want 1½" Unertl, Graphic Pacemaker, M720-.257. Bob Mangus, 128 No. Grant, W. Lafayette, Indiana.

REGISTERED BLACK COCKER PUPPIES $50.00 or will trade for target shooting equipment. Charles George, 218 So. Main St., Milford, Mass.

COLT .22 OMT 6", PERFECT, $75.00; SAME, King short-action, wide hammer, $100.00; Remington-Enfield 30-06 perfect in and out, perfectly reblued and restocked with beautiful high-comb and recoil pad, Redfield rear, tapped for scope, $100.00; Colt .38 OP, 6", honed action, King sights and hammer, checkered backstrap, absolutely perfect except name engraved on side $80.00; Colt Woodsman 6", new, $70.00; New guns and accessories at retail list, 5 day examination period on used guns to responsible purchasers. Stamp for list. Watkins' Sport Supply, Prospect, Ohio.

COMMERCIAL MAUSERS, NEW AND USED guns, loading equipment, scopes, binoculars, cameras, outboards. Guaranteed as represented. List 20¢, refunded on order. H. Dale Weeks, Belle Fourche, So. Dak.

ONE PYRO OPTICAL PYROMETER #6218, range 1400° to 3400° F., complete in case, $250.00. One Apeco Photocopy machine with trays, dryer, bottles, and filter, $110.00. Both excellent. Want 10 ga. Magnum and other new or excellent guns. R.R. Dickenson, P. O. Box 158, Greensboro, No. Car.

300 RIFLEMAN, GUNS, SCOPES. LIST FOR stamp. M'Guire, Box 625, Cumberland, Maryland.

LATE 52HB THOMAS TRIGGER, EXTRA grade Freeland stock, Marble-Goss and Olympic, latest 15X Super target spot. All excellent, $250.00. W. H. Womack, Rt. #2, Box 311, Shreveport, Louisiana.

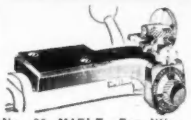
22-250, COMMERCIAL DST MAUSER, MASHburn HB, Bishop stock, Weaver-Litschert 330-6x, Pacific dies, cases, excellent $200.00. Scope & mount $40.00. Remington M30, 22 Niedner Rimless MII barrel, scope blocks, BM loading tools cases, very good $125.00 or in trade for M70-270, Swift or Leica camera. F. T. Neal, 419 Fifth, Shreveport, Louisiana.

MECHANICS • HOME STUDY

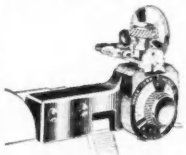
Step up your own skill with facts & figures of your trade. Audels Mechanics Guides contain Practical Inside Trade Information in handy form. Fully illustrated. Easy to Understand. Highly Endorsed. Check book you want for 7 days' Free Examination. Send no Money. Nothing to pay postman. ☐Carpentry $6 • ☐Auto $4 • ☐ Oil Burners $1 ☐Sheet Metal $1 • ☐Welding $1 • ☐ Refrigeration $4 ☐Plumbing $6 • ☐Masonry $6 • ☐Painting $2 • ☐Radio $4 ☐Electricity $4 • ☐Mathematics $2 • ☐Steam Engineers $4 ☐Machinist $4 • ☐Blueprint $2 • ☐Diesel $2 • ☐Drawing $2.

If satisfied you pay only $1 a month until price is paid.
AUDEL, Publishers, 49 W. 23 St., New York 10, N. Y.

VAVER DIAL MICROMETER SIGHTS
For All Popular Rifles



No. 35 MIELT—For Winchester 52 with Dovetail Receiver Slot. No. 5237—For all Winchester Round Receivers.



No. 37 RM—For Remington Rangemaster.

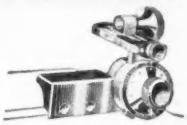
GET THE X'S WHEN THEY COUNT
WITH A VAVER DIAL MICROMETER SIGHT ON YOUR RIFLE

Gives you accurate adjustment in either direction for elevation or windage—without backlash. The eyecup—with a choice of quick-change apertures to meet any shooting condition—brings out the target sharp and clear without halo or cobwebs. VAVER Dial Micrometer Sights are made in standard or telescope height—regular or extension for all popular rifles.

VAVER QUICK DETACHABLE FRONT SIGHTS

The original large-globe front sight, with a size selection of shielded apertures, in combination with a VAVER Receiver Sight gives you the finest accurate sighting combination for the largest possible number of X's. With VAVER SIGHTS—you, too, can be a champion.

We will send Catalog FREE on request.



Series 38—For Winchester 75, Remington 513T and Sporting or Hunting Rifles.

W-11—Quick Detachable Front Sight — Telescope Height. Also made in standard height.

VAVER CORPORATION 2439 Kolin Ave., Chicago 23, Illinois

IMMEDIATE DELIVERY
All *NEW* Guns

Smith & Wesson K-22 Masterpiece	$65.00
S&W 1926 Model .44 Military 5"	64.00
S&W 1917 Army 45 cal.	64.00
S&W M&P 38 cal. 2", 4", 5" & 6" blue	56.50
S&W M&P 38 cal. 2", 4", 5" & 6" nickel	62.00
Hi Standard HDM 22 cal. Auto 4½" & 6¾"	51.17
Colt .38 Super Auto. Pistols new model	65.00
Colt Gov't. Model 45 cal. Auto. Pistols	65.00
Colt Official Police 22 & 38 cal. 4" & 6"	65.00
Colt Police Positive .38 short Nickel 4"	65.00
Remington 32 cal. Automatic Ammo. box of 50	3.95

F.O.B. San Francisco—Send for FREE list

STAR SPORTING GOODS CO.
Dept. NP-1
83 Third St. San Francisco 3, Calif.

GUN STOCKS

WALNUT ONLY **$6.50** POSTPAID

ENFIELD — MAUSER — KRAG
SPRINGFIELD—JAP 7.7—JAP 6.5

OTHERS ON SPECIAL ORDER

The American Rifleman, Technical Division, Al Barr, says about our work: "This is an excellent inletting job with plenty of wood on the outside for final finishing."

We guarantee our stocks to be machine inletted better or equal to any stock on the market.

Orders shipped in the sequence received. We acknowledge and give shipping date.

Free Folder Sent on Request

WIN-A-MER CO.
WASECA, MINNESOTA, U. S. A.

LIGHT WEIGHT
SPORTING RIFLES

We specialize in building up light weight Sporting Rifles .270 Caliber, using new Mauser Actions and a sturdy streamlined scope mount.
Write for complete description and prices.

JOHN H. KNECHT Route 2, Box 445 Los Altos, California

A TOOLSHOP IN YOUR HAND
FIRST TOOL OF ITS KIND -- *TODAY'S FINEST*

Smooth steady power at your fingertips! HANDEE uses 500 different accessories, such as a special mounted grinder that fits inside large-size primer pockets to clean out the hard-caked residue, for routing gunstocks, grips or blanks, scoring, grooving or fluting, matting or mottling metal. AC or DC. 25,000 r.p.m. Wt. 12 oz. In steel case with 40 accessories. $27.50. HANDEE only with 7 accessories $20.50. At stores or sent postpaid. A fine gift for a friend or yourself. FREE 52-Page Manual. Chicago Wheel & Mfg. Co., 1101 Monroe St., Dept. AR, Chicago 7, Ill.

HANDEE TOOL OF 1001 USES

For Outdoor Men
PARATROOP HUNTING BOOTS*

Here are the famous rugged, comfortable, foot-protecting boots that Paratroopers wore in the war ... *now available in heavy-oiled waterproof elk finish.* Ideal for hunting, fishing, hiking or outside work ... 10" height; balanced construction; leather counter, filler, middlesole and hard box toe; steel shank, reinforcing instep tapes; wide toe and narrow heel; long wearing rubber outer tap and non-trip heel.

Only $10.87 plus postage
PRICE SUBJECT TO CHANGE WITHOUT NOTICE
*Not guaranteed against stain

Sizes 4 - 13½ Widths AA - EEE

CORCORAN INC., STOUGHTON, MASS.
Send a pair of Paratroop Hunting Boots. Check Money Order for $10.87 is enclosed. I will pay postage C.O.D.

Name _____
Address _____
_____
Size and width of Shoe _____ AR 3

BUEHLER

MOUNTS AND SAFETYS

Mounts to Fit 1"	7/8" 3/4" Scopes on
MAUSER	POST-WAR M-70
SPRINGIELD	PRE-WAR M-70
WIN. M-54	REM. 14 & 141
REMODL'D ENIELD	M-99 SAVAGE

Complete Mounts with 5/16" or 3/8" blank bases for custom building to any rifle.

Send for Free Folders Postpaid **$15**

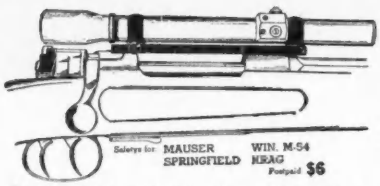
BOLTS ALTERED $7.50

Buehler Mounts have long, low, rigid base, positive zero. Extra-wide clamping rings are microlined with oil-resistant synthetic rubber . . . grip firmly without crushing scope. Lots of eye relief. Windage adjustment. No projections to catch on scabbard or brush. Beautifully finished steel, blued to match finest rifle.

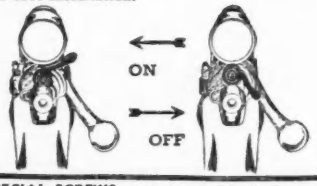
If your Dealer cannot supply, order direct and send Dealer's name.

GUNSMITHS! DEALERS!
Write for attractive proposition!

MAYNARD P. BUEHLER
697 Vernon Street Oakland 10, California
Distributed in Canada by
Western Scope Service, Calgary, Alberta



Buehler Safetys LOCK BOTH BOLT AND STRIKER, are safer, faster, more convenient. Fit readily under largest scope in lowest mount. Operate through arc of 70 degrees, positive stop in ON and OFF position. Machined from high-quality steel, beautifully finished and blued, a credit to any rifle. Install yourself or send bolt for free installation.



SPECIAL SCREWS—All Screws Blued. Postpaid
MAUSER Trig. Gd., includes locks. Set $1.50
UNIVERSAL ENFIELD Trig. Gd. Screw 1¼" long, 1⅜" of threads. Ea. 35¢. 12 for $2.50 net
6x48 Fil. Hd. hardened assorted lengths ⅛", ¼", 5/16", ½", per 100 $2.75 net
8x40 Fil. Hd. hard. assorted, ¼", ⅜", 100 $3.25 net

Before you buy . . . **Get full information on**

BELDING & MULL RELOADING EQUIPMENT

Performs all necessary reloading operations except powder charging, and is the least expensive precision-made Tool on the market.

Belding & Mull Straightline Reloading Tool, Model 28 Imp. ---------- $19.50
Belding & Mull Visible Powder Measure, *complete—no extras to buy* ---------- 12.50
Belding & Mull Stainless Steel Cleaning Rods, Type A ---------- 2.50

Ask for free circular for full information on these and other B&M Products now available. B&M Handbook 128-page booklet on handloading rifle and revolver ammunition, 60¢ postpaid.

BELDING & MULL
9 North Front Street
Philipsburg, Pa.

AMMUNITION

9 m/m Luger, (P-38, Browning H.P., Radom) minimum order 200 rounds, Box of 50 $4.50
6.5 x 55 m/m Swedish Mauser, Norwegian Krag, 139 gr. Boattail, 170 gr. Softnose, minimum order 80 rounds, Box of 20 $3.70
7.9 x 57 m/m (8 m/m Mauser) 194 gr. Softnose, minimum order 80 rounds, Box of 20 $3.90
9.3 x 74 m/m Rim, 285 gr. Softnose, minimum order 40 rounds, Box of 20 $10.50

This ammunition is commercial post war factory loaded with non-mercuric, non-corrosive components, and is of foreign manufacture. Prices include freight, packing and handling. All above prices subject to change without notice.

Dealer inquiries invited

ASHTON AND COMPANY
707 South Broadway Los Angeles, California

HOT & COLD HARDCOAT

For Your Optics

Our new ELECTRONIC process permits hard coating of SPUN-IN lenses without removal from cells. Coating greatly increases light transmission, definition, and reduces glare. Write for details. Have your rifle scope, spotting scope, binoculars and CAMERA optics improved 20% to 50%.

OPTICAL COATING LABORATORY
Box 36D, Route No. 1. Clinton, Maryland

PISTOL BELTS: Ideal for carrying canteens, knives, kits, etc. Made for U. S. Govt. Heavy water-repellent 2¼" web. $1 ea. Send order to OAKLAND MERCHANDISE MART
2711 Union St., Oakland, Calif.

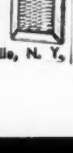
MASTER GUNSTOCK FINISH

Oil type finish—filler and oil combined. Saves time and labor—produces a beautiful and durable finish. Enough for several stocks. $1.00 postpaid. Discount to dealers. *Send 10¢ for list of sporting goods and used guns.*

HAWKEYE SHOOTERS SUPPLY CO.
1606 3rd Street, S.W. Cedar Rapids, Iowa

A SLICKER FOR ALL PETS

DOGS, CATS, RABBITS **$1** ppd.



A flexible brush, spring steel bristles penetrate coat of a long- or short-haired dog. The rows of teeth are staggered so that when drawn over, the dead hair, dirt, and parasites are removed. Used a minute a day keeps vermin away. Sanitary non-rust metal back 4¼" x 2". Ebonized wood handle. Can be used as a combination Brush and Comb $1 Ppd. Send for FREE Catalog.

WARNER PRODUCTS CO., Dept. Baldwinsville, N. Y.

HART'S

Yours for Better Shooting

77 GUN OIL GUN CLEANING SOLUTION 77

Modern Products, Chemically Engineered, Each Designed to Do One Job Only.
Maximum efficiency with minimum effort

CHEMICAL SPECIALTIES INC. P. O. Box 1253 Oakland, Calif.

RIFLES—PISTOLS—SHOTGUNS—K43-8MM, semi-automatic carbine ZF4 power scope complete excellent $95.00. K43 no scope, v.g. $42.50. 45-70 Army carbine good $16.50. 86-45 70 lever action Winchester fair $27.00. Winchester NRA 34 .22 caliber good $18.50. 6.5 Mannlicher Carcano, clips, and 18 rounds, v.g. $27.50. Custom brass Kentucky plains rifle, curly maple, showpiece, good $59.00. Luger 9mm. holster, 1913 Erfurt, excellent $40.00. Krag 30-40 rifle as issued good $35.00. Beretta .380 auto excellent, $35.00. Mauser rifle pre 1942 as issued, good $29.00. Browning 32 auto, good $20.00. Ward & Western Field automatic shotgun 12 ga. 28" ribbed barrel, full, v.g. $80.00. N.Y. Arms double 12-28—refitted forend-proof steel, good $19.50. Stevens double 12-28 #335, good $29.00. Harrington & Richardson single 12-28 fair $10.50. Japanese Samauri sword, rare, engraved laminated blade, handle solid brass carved Peacock, Sharkskin trim, engraved brass, fittings, trappings, gold enamel sheath, very good $100.00. Send money order, check or will trade for guns or binoculars. Must be good or better. E. J. Agramonte, Mamaroneck, New York.

WELL TRAINED BEAUTIFULLY MARKED three year old pointer dog registered ideal gun dog. Trade for modern guns or sell $100.00. Lawrence Feltner, Lead Hill, Arkansas.

FOX STERLINGWORTH 12 GAUGE DOUBLE with extra set ejector barrels chambered for 3" shells. Both perfect $175.00. Want any size speed graphic camera. J. Molnar, Bairdford, Penna.

COLLECTION OVER 200 ANTIQUE GUN catalogs lists, magazines $20.00; swap for antique revolver. Levitt, 307 Sterling St., Brooklyn, N. Y.

WILL TRADE CAMERAS, SEXTANT, BInoculars, fishing gear, trophies, jewelry, trumpet, collectors' items, electric drill & miscellaneous equipment for your Firearms & Accessories. Siegel Gun & Rifle Exchange, 412 Brook Avenue, Bronx 54, New York City.

BABY NAMBU, NEVER FIRED, PERFECT except very slight rust pits on barrel. Holster, extra clip, $97.50 or trade. Want excellent M70 Hornet or Swift. Melvin Harris, 215 Richards, Jacksonville, Illinois.

WANTED—HENSOLDT 8X ZIEL-DIALYT Zeiss Zielsech—describe thoroughly. Sell, or trade new .22 Webley senior air pistol. Jim Forst, 4428A Swan, St. Louis, Missouri.

JAPANESE CARTRIDGES FOR COLLECtors .22 types, wood, paper, etc. Send your duplicate list. My illustrated list 10¢. Harley Walters, 1347 South 9th Avenue, Wausau, Wisconsin.

NEW REMINGTON 513TR, NICHOLS CASE, $60.00; perfect 17x50 IF binoculars by Nippon Optical, beautifully clear, leatherette case, $185.00; perfect 7x50 If binoculars by Kanton Optical, very clear, leather case, $105.00; both specially made; Want good modern guns. John Summers, 617 North St., Cape Girardeau, Missouri.

TRADE

NEW, UNPULLED .30 M1 BOATTAIL BULlets. Will trade for clean empty 30-06 cases. J. W. McPhillips, 285 Mastick Avenue, San Bruno, Calif. tf.

BOUGHT, SOLD, EXCHANGED—REVOLVers, rifles, shotguns, cameras, scopes, binoculars, microscopes, typewriters, watches, machine tools. Dean's, 42-AA Riverdale Avenue, Yonkers, N. Y. 4-48.

TRADE—SELL—GUNS, CAMERAS, BINOCulars. Scarce photo equipment. Free list. Horton, 115 No. Main Street, Santa Ana, Calif. 7-48.

.22 FREE PISTOL DST VERY GOOD—WANT Varmint rifle. C.E. Mathis, Box 6, Amarillo, Texas.

NEW WOLLENSACK 6x30 BINOCULARS. Want excellent 16, Fox preferred. Donald Rea, 1931 Arlington, St. Louis, Missouri.

CLEAN UNPRIMED 22-15-60 CASES TO trade for modern ammunition or what have you? Louis Longcore, Lawrence, Michigan.

S.W. .38, 1865, EXCELLENT, RIFLEMAN 1929 to 1947—113 copies. Want Frontier or .45 automatic. W. F. Putnam, R.F.D. #3, Smethport, Penna.

Lynx Line

"I took on, as my first BLU-BLAK job, a set of $1,400.00 matched Parkers. They came out beautiful. I now have more work offered than I can handle."
G. WILLARD NEIGHBORS
Centerville, Md.

See Page 70

WILL TRADE NEW 21JLS. SOLID GOLD Lord Elgin for 30-06 sportster Springfield, same condition. Abe H. Klein, 368 Fannin St., Beaumont, Texas. (Member)

PICCOLO, MANDOLIN, VIOLIN, XYLOphone. Want—Krag, Enfield, Springfield, Mauser, Luger, Frontier, Bisley. Ralph Drake, Osborne, Kansas.

BRAND NEW K.22 MASTERPIECE FOR perfect old style K.22 or perfect .357 Magnum. Also want single action Colt. Howard Anderson, 1 Center St., Waterloo, N. Y.

WILL TRADE 8MM. K43 SEMI-AUTO. rifle, excellent in & out, for Mauser Military pistol, 7.63mm. 5½" barrel, of 1930 model or later. Examination privilege wanted. J. C. Wilke, R#3, Medford, Wisconsin.

DERAISME PARIS SKYROP 8x25 BINOCUlars; center, individual focus. Excellent except scratched body. Leather carrying case, fair. Want excellent blued Hi-side, heavy barrel, Hornet, telescope height stock. Describe fully. O. S. Taylor, Jr. 614 Market Street, Pocomoke, Maryland.

EXCELLENT .22 H.D. MILITARY HI-STANDard 6-44 H.B. flap holster; Want 6x30 coated binoculars. Robert Howard, Hamden, New York.

EXCELLENT 12 GAUGE WINCHESTER M12 with Cutts comp. and three tubes for Praktiflex 35mm. camera. Request and grant examination privilege. Write details first. L. F. McCarty, 542 Euclid Avenue, Helena, Montana.

NEW SCOPES FOR ENFIELDS WITH VERY good bores, headspace not over 1,946. Even for Weaver K2.5; rifle and $10.00 for Weaver K4 or K6; rifle and $20.00 for Lyman Alaskan. Generous trade in allowance on other guns. W. Joseph O'Connor, Baker, Oregon.

.45 NATIONAL MATCH FOR .357 MAGNUM S&W or Colt. John O'Malley, 8642 Euclid, Chicago 17.

ORIGINAL 30-30x12 GA. PREWAR 3 BARrel J.P. Sauer hammerless beautifully engraved; 35 Remington Expert grade beautiful fancy engraved clip loader. Both about excellent, 6x30 Hensoldt Commercial "Jagd" binoculars, case, consider foreign guns. See want add. Am collector. Not dealer. Vincent c/o Antique Shop, 252 East 52nd, New York City.

WANTED

RARE PISTOL COLLECTIONS. CASH. DEscribe, price. Life Member. Miller Bedford, New London, Ohio. tf.

BEST GRADE BRITISH HAMMERLESS sidelock double barreled shotgun with modern steel barrels and automatic ejectors. Don Hopkins, 806 Old National Bldg., Spokane, Washington. 6-48.

WANTED—BROKEN OR COMPLETE SHOTguns, rifles, revolvers and gun parts. Scaramuzzo, 601 South Halsted, Chicago 7. tf.

SINGLE GUNS, PISTOLS OR ENTIRE COLlections. Antiques a specialty. Our latest catalog #4 containing the entire S.A. Ingraham Collection now on sale at $1.00. No stamps please. Guns Inc., 24 Queens Buyway, Falmouth, Cape Cod, Mass. tf.

WANTED FOR CASH—ANTIQUE PISTOLS, rifles, edged weapons, armor, collection or single pieces. Robert Abels, 860 Lexington Ave., New York 21. 4-48.

OLDER S&W'S, AMERICAN, AMERICAN with Turkish Inscription, Wesson DA Favorite, first model M&P marked US or USN, first model 38 DA with straight cut sideplate, S&W Volcanic, any engraved, gold, silver plated, cased models. Prefer v.g. to perfect. H. L. Remmel, 1622 Center, Little Rock, Arkansas. 12-48.

ANTIQUE GUNS WANTED—ANY TYPE—describe fully. Licensed state and Federal dealer. Herb Glass, Bullville, N. Y. 3-48.

SHARPS BORCHARDTS, GOOD CONDItion, panel actions preferred. Life Member. D. A. Kuhn, Marietta, Ohio. 3-48.

ORIGINAL 6.5X54 OR 8X51 MAUSER ALSO Z4F Sniper scope. Describe condition state price. Eric A. Petre, 2005 Nebraska, Salem, Oregon.

Collectors or Shooters

When you wish to buy, sell or trade antique firearms you'll receive courteous attention to your needs from

JAMES E. SERVEN · Santa Ana, Calif.

Here's why we say it's the finest scope at the price...

$25

DEALER INQUIRIES INVITED

MORE BRILLIANCE-GREATER FIELD

If you want light gathering power and a larger field—check the diameter of the objective lens. The Saturn "Scout" objective is 44 mm.; 6 to 8 mm. larger than most scopes.

COATED PRECISION LENSES

Lenses are precision ground, *of highest quality optical glass*, fully corrected for spherical and chromatic aberration. They are equal in quality to those we make for our finest observatory instruments.

FINEST CONSTRUCTION

Wrinkle finished aluminum tube, chrome plated brass draw tube. Micrometer focusing. Weighs 23 ounces. Measures 2⅛" x 13" closed, 17" open.

Order from your dealer or from factory.

Guarantee: If you don't agree that it's the finest scope in its price class, return within 10 days and we'll refund your money.

SATURN

20X DRAW TUBE
"SCOUT" SPOTTING SCOPE
TINSLEY LABORATORIES
2528 GROVE ST. BERKELEY, CALIF.

"SPORTSMAN"
STOCK BLANKS
(Semi-Inleted-Walnut)
MAUSER - ENFIELD - SPRINGFIELD - KRAG

$7.50 PREPAID

THE SPORTSMAN SHOP
GREELEY, COLORADO

Rebarreling by **MARKSMEN**

MAUSER, SPRINGFIELD, ENFIELD
SINGLE SHOT ACTIONS

We use ADAIR BARRELS. Building complete Rifles in most of WILDCAT calibers, and all popular standard calibers.

Custom Bluing by DuLite Process.

— Primers, Powder, Bullets —
— A Few Guns for Sale —
— Send for Price List —

MARKSMEN 112 W. 9th St. Little Rock, Ark.

FAMOUS BULLS-EYE INDOOR
SHOOTING KIT

Used by Expert Shots for 20 Years

Shoots No. 6 Shot

Noiseless—Harmless
SURPRISINGLY ACCURATE

Plain Blue Model Kit Ready-to-shoot $3.50

Makes an ideal gift—for fun and serious target practice. We prefer you see your favorite dealer; if he cannot supply you send $3.50 for postpaid delivery.

BULLS-EYE Mfg., 7533 Fay Ave., La Jolla, Calif.

PLASTIC STOCK FINISH

The new Plastic base oil-type finish that is guaranteed: easy to apply; finest of results. No filler required, $2.00. Postpaid or C.O.D.

See Page 59, Jan. '48 "Dope Bag"

THOMAS GUN SHOP, Route 2, Sandpoint, Idaho

BULLETS *NEW 1948 MGS PRICE SCHEDULE*

22 cal. $2.80 to $3.10, .228 cal. $4.00, .257 cal. $3.60 to $4.20, 6.5mm $4.00 to $4.20, .270 cal. $4.00 to $4.60, 7mm $4.40 to $4.60, 30-06 $4.00 to $5.10, 8mm $4.00 to $5.50, 9mm $5.10 to $6.00, .35 cal. $5.10 to $6.00, .375 cal. $6.00. Write for descriptive catalogue, price list, and loading information.

MODERN GUN SHOP 15349 S. Paramount, Clearwater, Calif.

NEW 30-06 MAUSER 23¼" BARREL

INSTALLED IN YOUR ACTION $29.95

SAME PRICE FOR NEW 30-40 KRAG

NEW 30-06 Mauser 23¼" barrels $22.50
NEW 30-40 Krag barrels, 22¼" 22.50
NEW Spr. 4 groove, right twist 14.50

Fully chambered & threaded
F.O.B.—M.O.—or C.O.D.

H. C. OSBORN Box 1267, San Antonio, Texas

.30 CALIBER

Cleaning rods, brass, three piece and tip. U. S. Army Surplus, in the cosmoline, 89¢ each, 2 for $1.50. .30 cal. brass brushes 3 for 25¢. Borescopes 75¢ each.

No C.O.D. Postpaid in U. S.

VALLEY SURPLUS
124 W. Valley Blvd. El Monte, Calif.

LITHOGRAPHED

OFFICIAL N.R.A. Targets

RIFLE AND PISTOL

N. R. A. SEAL — SEND FOR FREE Illustrated Price List

Improve your shooting skill by aiming at N.R.A. TARGETS.
To maintain perfect marksmanship, always insist on
OFFICIAL N.R.A. TARGETS, the champions' choice!

NATIONAL TARGET COMPANY, INC. 1255 25th St., N.W., WASH., D.C.

WALNUT STOCKS
IMMEDIATE DELIVERY

PRECISION MACHINE INLETTED
SATISFACTION GUARANTEED

Enfield, Krag, Springfield, Mauser, Jap, 25 and 31 calibers. Regular or Monte Carlo models, with or without cheek rest. We guarantee our precision machine inletting is the most accurate in America. Using a knife, file and sandpaper, an amateur can feel an action in less than 3½ hours; an expert 1½ hours. Exclusive time-proved designs created by expert gunsmiths.

Stocks sanded and with butt plate and pistol grip plates attached $7.50. Add 75c for attaching forearm tip. Ivory or black spacer plates installed between stock and butt plate, pistol grip plate and forearm tip. Add $1.50. Add $5.00 for stock completely hand inletted so that rifle will drop right into place.

$6.50 POSTPAID

With knurled Tenite butt plate, pistol grip plate and forearm tip unattached and with screws furnished. Butt plate, pistol grip plate and forearm tip available in black, ivory or mottled walnut.

SECONDS in regular sporter stocks with knurled Tenite butt plate, pistol grip plate and forearm tip unattached but with screws furnished available at bargain prices: With small knot hole or checks in rear part of butt, quickly repairable, $4.50, postpaid. With medium knot hole or cracks in forearm, repairable, $2.50, postpaid.

MANNLICHER STOCKS

Mannlicher stocks in all the above models. Delivery March 1. Order now! Precision inletted with knurled Tenite butt plate and pistol grip plate (black, ivory or mottled walnut) attached. Outside of stock sanded $11.50.

Add $6.00 for complete hand inletting; $1.00 for installing black or ivory spacer plates.

WRITE TODAY FOR FREE CATALOG 39

HERTER'S

WASECA, MINNESOTA, U. S. A.

SIERRA RAMPS

Manufactured for SPRINGFIELD, ENFIELD & MAUSER
#6-48 Screw Included
$2.25 Each (Postpaid)

GAS CHECKS

8mm, .32, .30, .270
.25, .22 Caliber
Precision Made of Finest Copper
Unlimited Quantities Available
$1.75 Per 1000 Postpaid

Liberal Discount To Dealers
If your dealer cannot supply you send his name.

Harris Machine Co.
312 East Bermudez
Rivera, California

New Improved—One Application
Minute Man ★ GUN BLUE
Instant "Blue Steel" Gun Finish
Not a Paint-Not a Lacquer
MAGIC COLD CHEMICAL Restores finish on 5 Guns. No heating! Can't injure steel. Simple process. Takes minutes.
$1
GET Free descriptive circular
NEW METHOD MFG. CO.
ARM 15 New Method Bldg., Bradford, Pa.

GUNSMITHING
By Wurzer

Repair, alteration, restocking, etc., of modern arms. Write first for prices and delivery date.

WURZER and PETERSON
Formerly associated with R. F. Sedgley Arms Co.
5239 N. 5th St. Philadelphia, Pa.

Instant FOOT RELIEF!

Dr. Barron's NEW QUADRO-FLEX FOOT CUSHIONS help give INSTANT relief to many foot sufferers. Relieves painful pressure from CORNS, METATARSAL CALLOUSES, WEAK ARCH FOOT PAINS. Cushions tired, aching feet from HEEL to TOES. Soft, ventilated, spongy—like walking on pillows! Fits all shoes. SENT ON APPROVAL! SEND NO MONEY. Pay postman $1.98 plus postage for PAIR (or send $1.98, we pay postage). State SHOE SIZE and if MAN or WOMAN. 30-Day Trial Guarantee. Money back if no blessed relief.

ORTHO, INC., Dept. 144C, 2700 Broadway, N.Y.C. 25

TARGET & VARMINT SHOOTERS' SUPPLIES

Ammo., Match $12.90 M; Reg. $10.75 M—Wilson—B&M Tools—Lyman Scope Blocks—Win. & Rem. Primers $6.50 M—Dupont Powders, Rifle $1.75 lb.; Pistol $1.10 ½-lb.—G&H 2R Lovell Cases $5.00 per 100—other new primed cases—Sisk & Speer Bullets—Myers' Sling-Eze Cuffs & Straps—New Army Type Slings $2.00—Croft "Factory Seconds" Coats $7.25—Cleaning Rods & Supplies—Samworth Books—Other Items. Write for latest list and prices.

R. W. SPROWLS
1600-7th Ave., S.E.
Cedar Rapids, Iowa

SPRINGFIELD NATIONAL MATCH, HIGH number, excellent original condition. Ralph Dittmann, 427 Bender Road, Milwaukee, Wisconsin.

WILL PAY $40.00 FOR EXCELLENT CZECH Mauser G .33-40 lightweight rifle. A. W. Jackson, 17 Bryant, Springfield, N. J.

WANT—TRAP GUN DOUBLE BARREL 12 ga. A. J. Shedivetz, Box 442, Oklahoma City, Oklahoma.

357 S&W 5" or 6" BARREL, EXCELLENT TO perfect, pay top price. Member. Gerald R. Allen, Box 1297, Juneau, Alaska.

PRACTICALLY ALL KINDS OF AMERICAN and Foreign makes, old and new, pistol and rifle. Particularly want 6mm. Lee, 9mm. Mauser, Lebels, 38-72, 40-65, 40-82, 45-90, 45-60, 45-75, 401 and the Jap and German military types. Will either trade modern ammunition or will buy outright. Kindly state price or trade wanted, no offers made. Life Member. Philip Jay Medicus, 18 Fletcher St., N. Y. 7, N. Y.

NICE GUNS, HORNETS, 250-3000, 270, 300, other calibers, shotguns, revolvers, automatic pistols. Write details, lowest price, if accepted will air mail M.O. L. T. Gibbs, Member. Federal License 5242. 716 Kress Building, Houston, Texas.

S&W 357 MAGNUM AND 257 ROBERTS sporter, G&H preferred. H. A. Newby, 736 Garfield, Denver 6, Colo.

REMINGTON OR WINCHESTER DEER rifle Hurd rod, also Indian relics. J. B. Reek, Walworth, Wisconsin.

OLD MODEL LUGER BARRELS, 7.65MM. preferably 4¾", good or better; also old model Luger extractors. Will pay high price. R. Sykes, 1215 Hamlin St., Seattle 2, Washington.

MILLER BEDFORD, NEW LONDON, OHIO, wants double rifles, overunders, trap guns, superb guns. Price first letter. tf.

30-40 KRAG, ISSUE OR CONVERTED. MUST be v.g. in, out. Will answer all letters. Denton Moore, Clark's Point, Alaska.

MODEL 70 ANY CALIBER OR MODEL, sell new Weaver K4, $40.00 and K2.5 $32.50. Gleason Taylor, Coshocton, Ohio.

WANTED FOR CASH PRISM BINOCULars, Field Glasses and rifle telescopes. Ship for inspection. Highest cash price will be quoted by return mail. Sportsmen's Supplies, 250 West Bayberry Lane, Upper Darby, Penna.

WINCHESTER LO-SIDE SINGLE SHOT carbine. Loose barrels and stocks for hi-side single shots. Lloyd Bender, Galion, Ohio.

SCOPE & MOUNT FOR 1941 7.62 TOKAREV rifle. M. Ziehms, Box 695, Muskegon, Michigan.

REWARD LEADING TO PURCHASE OF model 54 Stevens 44½ in near new condition, also engraved thick wall Winchester; 22 WRF or 25 Rim fire preferred. Bob Metcalfe, 1733 North Alberta, Portland, Oregon.

WANTED—FIRED ONCE 30-06 CASES. Must be clean. State year and price. Paul Ratliff, Hillyard, Washington. 4-48.

FRONTIER COLTS, IN GOOD SHAPE, also fancy ones, ivory grips. Robert Abels, 860 Lexington Avenue, New York 21. 4-48.

F.A. AMMUNITION, BOATTAIL PREferred, consider all. State price. Paul Ratliff, Hillyard, Wash. 4-48.

PARTS TO SERVICE FOREIGN PISTOLS and rifles need Mauser rifles or actions. Western Gun Exchange, Whittier, Calif. 5-48.

LOTS OF ANY SIZE, UP TO 100 OR MORE, bull-dogs or top-breaks pistols, can also use Colts, S&W, Wheelers, 32's or 38's, or what have you. Jules Livingston, 501 E. Baltimore Street, Baltimore 2, Maryland. 8-48.

REVOLVERS, AUTOMATICS, ALSO GUN parts, regardless of condition. Give description and your price, reply assured. Kenlx Company, 3706 Florida Avenue, Tampa, Florida. 4-48.

DOG TETHER $1.00

Swivel ring top. Dog cannot get tangled or pull out. Holds in soft or hard ground. The angle stake and flush disk will hold the largest dog securely. Light weight, rust resisting. Carry in car glove compartment—handy. Ideal where local ordinances are against loose-running dogs.
Price $1.00 postpd. With 6-ft. swivel chain—$1.75: 10-ft. $2.25 postpd.
Send for Free Catalog. Dept. R
Warner Prod. Co., Baldwinsville, N.Y.

.41 REMINGTON, COLT DERRINGERS, also other Derringer pistols, freaks, oddities. Robert Abels, 860 Lexington Avenue, New York 21. 4-48.

OLD, OBSOLETE OR ANTIQUE PISTOLS and revolvers in working condition. H. A. Brand, 1008 Ingalls Bldg., Cincinnati 2, Ohio. 4-48.

ANTIQUE PISTOLS, SINGLE PIECES OR entire collections. Wm. M. Locke, 3607 Ault Park Road, Cincinnati 8, Ohio. 11-48.

DEALERS TO HANDLE OUR LINE OF scopes, mounts and shooter's accessories. Gopher Shooter's Supply, Faribault, Minnesota. tf.

HIGH GRADE LIGHTWEIGHT OVER AND under or double shotgun of any gauge. Boss-Purdey or Woodward preferred. Grant Pierce, 64 Alumni Avenue, Providence 6, Rhode Island. tf.

WANTED MANY TYPES OF OBSOLETE ammunition. Domestic and Foreign such as Remington, Sharps etc. with Paper patched bullets state what you have and what you want for it. Carl Metzger, 2305 Canton St., Dallas 1, Texas. 3-48.

I WILL BUY: MAUSERS, ENFIELDS, Springfields, Krags, foreign rifles & shotguns—quote price 1st letter. Member. J. Otto Peebles, 1004 Ionia S.W., Grand Rapids, Michigan.

.256 NEWTON, SERIAL UNDER 2000, BARrel and stock immaterial, set trigger action must be good. C.C. Hankins, Buffalo, Wyoming.

FIRING PINS AND PARTS FOR WALthers, PPK, .22 caliber, also other Walthers parts. Scopes for trade. Frank Foster, Box 983, Clovis, New Mexico.

10 AND 12 GA. PARKER BARRELS 30". W. Kohl, South Glendale, Peoria, Illinois.

ITHACA 10 GA. MAGNUM SINGLE TRIGger, automatic ejectors, give full description must be excellent to perfect. Bert C. Hoffman, 309 No. Main, Santa Ana, Calif. Member.

MILLER BEDFORD, NEW LONDON, OHIO wants double rifles, overunders. Describe, price. tf.

COLT OR SMITH & WESSON .22 CALIBER Officers model target 6" short action—cockeyed hammer perfect, or swap for .45 caliber automatic, perfect. Dr. H.A. Paskow, 125 Broad St., Elizabeth, New Jersey.

COLT AND REMINGTON PISTOLS FOR private collection. Also G33-40 Mauser. Will buy or trade. J. R. Laurie, 63 Norwood, Greenfield, Mass.

WINCHESTER 52 H.B. OR REMINGTON 37 with left hand action or S.S.H.B. lever action target rifle. Arthur Plummer, 408 Hazel Avenue, Union, N. Y.

ONE OR TWO V.G. OR BETTER ISSUE Springfield, Mauser or Enfield rifles or actions; describe fully. Also clean once-fired or new 8mm. Mauser cases. Warnisher, Lewistown, Montana.

HI-WALL OR 44½, AND 10 GA. MAGNUM, reasonable. E. G. Hoblit, R #1, Clayton, Ohio.

SINGLE ACTION ARMYS, BISLEYS, GOOD to poor, also 1890 Remington revolver. Ed. Brooks, Rt. #1, Box 452, Roseville, Calif. 8-48.

GOOD USED MODERN GUNS AND FINE antique firearms—bought, accepted in trade or sold for you on a commission basis. Wahl, Bogota, New Jersey.

70 HORNET PREWAR MUST BE GOOD condition. Millard Wood, 1606 Tracy, Endicott, New York.

WINCHESTER SALUTE CANNON, 30-40 cartridges. Thomas O. Mueller, 103 E. Columbia, Evansville, Indiana.

ENFIELD, SPRINGFIELD, MAUSER, AND Mannlicher rifles, actions and parts. Henry Kaufmann, 811 West 36th St., Baltimore, Maryland.

TWO 30-40 KRAGS AS ISSUED AND SOME ammo. Texan scope, Saturn scout scope and stand. Stephen Fajnor, 1728 W. Ohio St., Chicago 22, Illinois.

MORRIS L. MENG

CUSTOM GUNSMITH

Military conversions to standard or de luxe sporters. Specializing in high-grade custom rifle and shotgun alterations.

Fancy rifle and shotgun stocking.

Beautiful Bluing — General Repairs

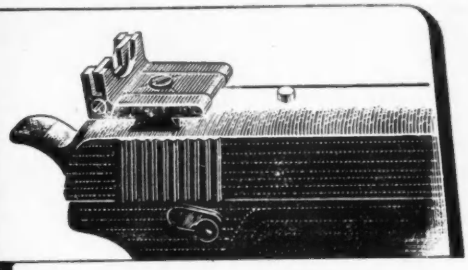
SEWELL, NEW JERSEY

SIX reasons why

MICRO SIGHTS

IMPROVE YOUR SCORES

- **Positive Locking**
- **Click Adjustment in Windage and Elevation**
- **Sharper Definition**
- **Higher Sighting Radius**
- **Deep Notch**
- **Eliminates Glare**



TWO-WEEK SERVICE

GUARANTEED WORK

Available for High Standard HD-M, D & E—Colt Woodsman — M. T. Woodsman — .45 Auto. — .38 Super Auto. — Official Police — Army Special and S&W Military and Police.

PISTOL AND REVOLVER SPECIALISTS

Short Actions — Offset and Wide Hammers — Accuracy Jobs.

Military Rifle Conversions to Sporters

MICRO SIGHT CO., 5813 Mission St., San Francisco 25, California

ARMY AUCTION BARGAINS

Krag rear sight	$1.00 each
Shotgun nippies	.25 "
Cart. belt, double row, cal. 30	.60 "
Mauser Model '98 hook	.45 "
Flint pistol barrel, 9" used	.75 "
Revolver holster, black, cal. 38	.45 "
Angular bayonets, 45/70	.90 "
Antique oil cup	.25 "
Enfield butt swivels	.40 "
10 assorted flints for	.95 "
Model Cannon 5½", no mount	1.50 each
Flint hammers, medium	.95 "
Sharps barrels, cal. 50, new	4.00 "
Hessian sword Bayonet, 26½	1.00 "
Shell extractors, cal. 45, headless	.25 "
Globe sight covers, 45-70	.35 "
Gun slings, Civil War	.50 "
McKeever cart. box 45-70	.40 "
Main spring vise	1.00 "
British F.L. pocket pistol	38.00

PRICES DO NOT INCLUDE POSTAGE.

Articles shown in special circular for 3¢ stamp. 1945 catalog, 308 pages, over 2,000 illustrations of guns, pistols, sabers, helmets, medals, buttons, etc., mailed in U.S. for one dollar.

FRANCIS BANNERMAN SONS

501 Broadway — New York 12, N. Y.

NOTICE

H & M TOOL COMPANY

has moved to a larger plant to better serve our customers

Our new address is

250 East Nine Mile Road

Ferndale, Michigan

★

Chamber reamers • Shell Resizers

Headspace gauges • Rifling Heads

Write for catalog

WILDCAT AND SPECIAL REAMERS MADE TO YOUR DIMENSIONS

HIP BOOTS ***SPORTING WEIGHT***

FOR IMMEDIATE DELIVERY

Genuine first quality rubber. All even sizes 6—12. Cleated sole. Comfort cushion insole. Lightweight, uppers. Inside knee harness. Semi-hard toe cap. Olive drab. Postpaid. Pair $9.95

VALLEY SALES COMPANY

208 State, Schenectady 5, N. Y.

HEADSPACE GAUGES

New — Accurate — Not Surplus

.30'06 caliber, 1.946" maximum, also 1.940"; 1.942"; 1.944"; 1.948" and 1.950". BE SAFE—check that "UNSERVICEABLE" Springfield or Enfield with precision gauges, hardened and ground to exact tolerances, $3.25 each, postpaid.

FORSTER BROTHERS 3539 N. Kenton Ave., Chicago 41, Ill.

SPEER BULLETS

POWDER PRIMERS LOADING TOOLS

	List price per 100 postpaid
.223 cal. 40, 45 gr. MV	$ 2.80
.224 cal. 40, 45 gr. MV, 45 gr. HV	2.80
.228 cal. 60 grain—$2.95 ..... 75 grain	3.25
.257 cal. 120 grain	3.75
.270 cal. 100 grain—$4.00 ..... 150 grain	4.20
.30 cal. 110 gr.	4.00
.30 cal. 150 gr. WR—150 gr. GP, 180 gr.	4.20
8 MM 125 gr.	4.00
8 MM cal. 170 gr.	4.20
PRIMERS: Large and small rifle, large and small pistol per M	6.00
POWDER: DuPont and Hercules, per lb.... Hercules Unique & Bullseye, DuPont No. 4759, 8 oz.	1.80 / 1.25
Gas Checks—.25, .30 and 8 MM caliber, per M	1.75
PACIFIC TOOLS, Complete for one caliber—Standard, $28.75—Super ..... Pacific and Universal dies in most calibers	35.75
PACIFIC POWDER SCALES	8.50
IDEAL POWDER MEASURE, No. 55	10.00
TRU-LINE JUNIOR PRESS complete for one caliber	22.00
SAECO TRU SPEED POWDER MEASURE, complete with stand	15.75
STAR SIZER and LUBRICATOR	28.00
POTTER FURNACES, Model D	20.50
SHARPE'S GUIDE to HANDLOADING	8.00
IDEAL HAND BOOK	.50
PHILLIP'S DETACHABLE SWIVELS, complete with base, I & 1¼ inch, pr.	2.00
Non-detachable swivels, I and 1¼ inch, pr.	1.00
USED GOVERNMENT SLINGS—good condition—1¼ inch	.75
BRAUER GUN SLINGS—new—I and 1¼ inch	1.75
ACKLEY SNAP-ON MOUNTS	14.95
ACKLEY SAFETIES for Mauser and Springfield	6.00
WEAVER SCOPES, K4, K2.5, J2.5, J4, G4, G6, K6	List price
Remington 513T	53.50
Remington 521T	37.50

Send for our complete price list

J. W. HORNADY

324 West Fourth Street

GRAND ISLAND, NEBRASKA

Clear Sight Scope Lens Caps

Pat. Pend.

Optical glass lens and Neoprene bodies protect scope lens from excessive or hurried cleaning, oil, moisture, dust, shocks, scratches. For all popular hunting scopes—$2.95 pair. At your dealer or direct.

SOUTHWEST CUTLERY & MFG. CO.

1307 Olympic Blvd. — Montebello, California

PISTOL SHOOTERS

Our new Micrometer Rear Sight is simple, sturdy and dependable. ACCURACY IS GUARANTEED. Self-locking click adjustments. Made for Hi-Standard Target Models, Match Target Woodsman, 45 Auto, and others.

Price $12.00. Including Front Sight

See August 1947 Dope Bag.

GREGOIRE ENGINEERING CO.

Box 3114 — New Haven, Conn.

TWO MINUTES and your scope is complete!
Install VISSING LENS COVERS

Just touch the button—and always be positive of clean, dry, clear natural lenses. Hermetically sealed when closed, adjustable lid angle when open.

The same beautiful black finish as your telescope, with grooved chrome plated operating button for distinction.

ELMER KEITH says "I heartily endorse Vissing Lens Covers. Auxiliary iron sights are unnecessary."

$12.75 U.S.A.
Slightly higher in Canada
U. S. & Foreign Patents Pending

See your dealer or write direct to:

E. D. VISSING CO. Idaho Falls, Idaho

State type of scope when ordering

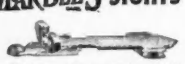
Better Sights FOR BETTER "SHOTS"

Sheard "Gold" Front Sight $1.75

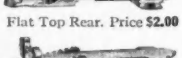
Standard Front Sight $1.25

For faster, more accurate sighting equip with a combination of

MARBLE'S SIGHTS



Flat Top Rear. Price $2.00



Semi-Buckhorn Rear Price $2.00

Marble's Flexible Rear Sight, with automatic spring joint. Can be locked down. With 2 discs. Price $5.50.

At your dealer, or write for Catalog

Marble Arms & Mfg. Co.
502 Delta Ave. Gladstone, Mich.

(232)

SITE·RITE PRECISION CENTER DOT

Trade-Mark

Pat. Pending

Available in floating dot, cross hairs semi-visible & with fine distinct cross hairs for dots 1½" & over. Dot sizes ¾" to 4" at 100 yards. 24 to 48 hour service. All work *unconditionally guaranteed.* Dots installed your scope $7.50, except Alaskan, Leupold, G88, Texan $10.00 & foreign scopes $12.00. New scopes with precision dot for sale; K2.5 $45.00; K-4 $52.50; Texan $60.00; Alaskan $70.00. All target scopes at list price plus $7.50 for dot. Nylon Cross Hairs—Single $6.00; Double $8.00. Scopes Repaired & hard coated. Send for estimate. *Send all scopes by Registered Mail.*

All popular mounts at list price.

ARTHUR R. MYERS 410 BOND BLDG. WASH. 5, D. C.

Order **SPEER BULLETS** From
EASTERN WHOLESALE DISTRIBUTOR
Faster shipments — lower shipping costs
Also powder, primers, cases, loading tools.
Dealers inquiries invited
Harris Sales Co. Lansdowne, Pa.

AMERICAN JIU JITSU TRICKS
★ COMMANDO FIGHTING ★

Learn American Jiu Jitsu. Be a winner in clean or dirty fighting where it means do or die. Fear no man, club, knife or gun. A complete course by the world's most famous Jiu Jitsu instructor. He has personally taught many in the U. S. Army, Navy, Marine, National Guard, Coast Guard, R.O.T.C., Customs, Immigration Border Patrol, peace officers, civilians, in U.S. & Canada.

BOOK NO. 1. A Course on knockout blows. Just a jab with tip of fingers or strike with edge of hand at numerous nerve pressure points. 52 Photographic illustrations.
36 SECRET KNOCK OUT BLOWS and DEATH BLOWS ABOVE the WAIST WITHOUT the USE OF FISTS 25c

BOOK NO. 2. A course on a series of Come Along Holds that will enable you to subdue and hold any man with ease. With 45 Photographic illustrations 50c

BOOK NO. 3. A Course of shaking down the Gunman, shows how you can approach, search and disarm persons so they can't disarm you regardless of how much they know of any jiu jitsu methods. 51 illustrations..... 50c

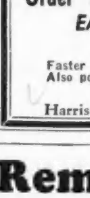
BOOK NO. 4. The latest in disarming persons with guns, knives or clubs; defense against any kind of foul attack. How to do dirty in-fighting, where it means your life. 108 pages, 151 illustrations.... $1.00

You can have the complete set for only $2.00 postpaid, or sent C.O.D. plus postage in U.S.A. only. Send the four books on these latest methods of hand-to-hand fighting to a fighting man today.

THE ALLIED ARMED FORCES EMPLOY MY METHODS

S. J. JORGENSEN, 1111-J Virginia St., Seattle, Wash.

Remove all Gun Fouling with HOPPE'S No. 9



Not merely the primer and powder soot but the tough, tenacious lead and metal fouling, too. This solvent will clean your gun completely and prevent rust. At your dealer's or send us 10c for sample. For full details on gun cleaning, send for our FREE "Gun Cleaning Guide."

FRANK A. HOPPE, Inc.
2321 North 8th St., Phila. 33, Pa.

GUNSMITH SUPPLIES

Barrel Blanks: Blueing-Tanks, Band Ramp Front Sights & Blades, Chambering Reamers & Gauges, Inletting & Checkering Tools & Rasps, Gunsmiths Special Taps & Dies, Buffing and Polishing Wheels, Compounds.

DRIVER EQUIPMENT CO.
1152 Valencia Str., San Francisco 10, Calif.
Manufacturers, Distributors, Gunsmiths' Supplies.

NOW READY ! !
1948 Gun Catalogue

Over 2,000 Modern & Antique Guns, Pistols & Weapons of all types. Accessories, Ammunition, Loading Tools, Bullet Molds, War Relics, Books, Edged Weapons, Native Weapons, Medals, Insignias, Uniforms, Helmets.

CARTRIDGES FOR COLLECTORS

150-page catalogue, over 600 illustrations. A wealth of information for the Collector and Shooter.

PRICE 50¢ COIN

MARTIN B. RETTING, West Hurley, New York

AMERICAN RIFLEMAN, BACK ISSUES, any amount, state condition, quantity, first letter. A. S. Huser, 419 Second Avenue, West., Kalispell, Montana.

PARKER S.C. 32, REMINGTON 31, TC, REMington 32, TC, also Browning O&U guns. Pettit, Emmetsburg, Iowa.

SHARPS, BALLARD, SPORTING OR TARget, other obsolete cartridge rifles, Daniel Nolton, 3781 Cadillac, Detroit 14, Michigan.

1895 MODEL MARLIN, AND WINCHESTER high sidewall rifles. Condition good or better. Barrel immaterial. Ludvig L. Larson, Box 162, Elk Point, South Dakota.

GOV'T 30-06 CASES—FIRED OR NEW—1940 or later. State amount and price. Jack Whitworth, Kline, Colorado.

WALTHER OLYMPIC FOR .22 SHORTS, A. D. Paull, c/o Wheeling Stamping Co., Wheeling, W. Va.

NEW BARREL, BLUE, 4" OR LONGER FOR S&W triple-lock .44 Special. U. Rustari, 202 Marshall St., Fitchburg, Mass.

G.43 SEMI-AUTOMATIC RIFLE, PAY $15.00-$30.00. Also for parts, G.43 stock. J. DiCresce, 5534 Cooper, Detroit, Michigan.

REMINGTON MODEL 32TC O&U, OR WINchester model 21 deluxe trap with ventilated rib. Describe fully and price. E. J. Watkins, Box 339, Hanford, California.

S&W TERRIER .38 BEST CONDITION PREFerably blued, also 8 gauge shotgun shells. Hulburd Johnston, (Life Member) Rm 996, 208 So. La Salle St., Chicago.

EXCELLENT 16 GAUGE OR LIGHT 12 DOUble. R. P. Haun, Coleman, Texas.

G33-40, AS ISSUED, STATE CONDITION action, barrel and price. Member. P. Schmidt, 1616 W. Onondaga St., Syracuse, N. Y.

.38 COLT SUPERS AND SUPER MATCH AUtomatics. Must be prewar blue. Colt Aces and Woodsman 4½" excellent to perfect. Gus Straus, 102 E. San Antonio, El Paso, Texas.

4 BARREL GUNS: 7x64 RIFLES; GERMAN, Austrian double rifles; Brenneke rifles; Mauser type combined with shotgun barrel below; German telescope sights and parts of mounts; Mannlicher-Schoenauer rifles 3-barrel guns; Fancy engraved combination guns; engraved Mausers; Hammer combination guns with telescope sights; 5.6 Vom Hofe rifle or combination gun; Foreign bolt action hunting rifles and double rifles with telescope sights; Holek and Krieghoff rifles; Double 6.5mm, 7mm, 8mm, 9.3x74mm. rifles; Anzac Hot; Perfect or wrecks bought. Dealers replies welcome. Not wanted Military firearms, pistols, revolvers, machine pistols, machine guns, or any firearm with a barrel under 18". Vincent c/o Antique Shop, 252 East 52nd, New York City. Am collector not gun dealer.

CASES WANTED—30-06, 25-20, 220, 7-62 Russian, .303 British, .257. State quantity available, age, condition, and price in first letter. Wagners Gunroom, Ashland, Ohio.

MODEL, 1920 SAVAGE RIFLE, STOCK, BARrel and caliber immaterial. John Bigler, 27 Sherman Avenue, Washington, Penna.

NICE RIFLES 30-30, 250-3000, 270, 300, 22 Hornets, others. Shotguns, pumps, doubles, automatics, nice revolvers, automatic pistols, Want nice medium, or popular priced guns for everyday resale trade. Will buy few hundred for resale, price must be reasonable, Give full details, lowest price. If priced right will air mail money, otherwise thanks. Will buy job lots, broken stocks ammunition. Price must be right. L.T. Gibbs, Member. Federal License, 716 Kress Bldg, Houston, Texas.

WINCHESTER MODEL 70 HORNET, NEW to excellent. W.E. Dimmock, Jr. 534 W. Walker Avenue, College Park, Georgia.

MODEL 70 CALIBER 30-06 WINCHESTER Bullgun describe completely with price, also model 03, 30-06 Army rifle, condition of barrel immaterial. Lawrence Nuesslein, 3011 Greenleaf Street, Allentown, Penna.

GUN BOOKS
OLD and *NEW*

Any book that is advertised or reviewed in THE AMERICAN RIFLEMAN—also many hard-to-find titles. Send 25¢ for price list.

RAY RILING—Arms Collector Service
6844 Gorsten St., Philadelphia 19, Pa.

SAVAGE 23D HORNET, PREFERABLY with scope. Condition excellent or better. Arthur Van DeWater, 48 Walworth Avenue, Scarsdale, New York.

WINCHESTER MODEL 71. W. T. MOYERS, 716 Symes Building, Denver, Colorado.

WANTED—COLT AND REMINGTON PERcussion revolvers poor to fine shape. Robert Abels, 860 Lexington Avenue, New York 21. 4-48.

REMINGTON STOCKS, BLOCKS, CARRIERS, and a number of small parts for model 11 Remington, also Winchester barrels and magazines. Write what you have, condition and prices. We will buy from one dozen to 500 parts for cash. Geo. B. Carter Co., 102 West Bank St., Petersburg, Virginia.

IHAGEE EXACTA B, OR IHAGEE VP AUTO. Ultrix, or Zeiss Super Ikonta A special camera. R. P. Haun, Coleman, Texas.

SCOPES, BINOCULARS SIGHTS & CAMERAS

BINOCULAR TRADING POST. NEW COATED binoculars; B&L, Sard, Universal, Zeiss; Mirakel Stereor 6x18 pocket size $95.00 (plus tax). Argus Spotting Scope, case and tripod. Also used binoculars reconditioned and guaranteed by us $25.00 up. Liberal trade-in allowance. Send for list and booklet, "The Use & Care of Binoculars". Mirakel Repair Co., Mount Vernon, N. Y. tf.

BINOCULAR CASES, NEW: FOR 7x50 AND 10x50, $7.50. Kodak style, finest quality leather for most 6x and 8x, $5.50. Also box or kodak style made to order. Mirakel Repair Co., Mount Vernon, N. Y. tf.

BINOCULARS, FIELD GLASSES, REPAIRED, hardcoated. Accurately aligned by collimator. Prompt service. Mail instrument for free estimate. Binoculars bought, sold, traded. New cases available. Rochelle Optical Company, 28 Cliff Street, New Rochelle, N. Y. tf.

TOMMY DOTS INSTALLED IN YOUR CELL. K scopes $5.00, Target-spot $4.50, cell and dot complete K scopes $6.00, Lyman $5.00. State power. Unertl, Fecker, your cell $4.50. One day service. Robert S. Thomas, Silver Spring, Maryland. 7-48.

TACKHOLE DOT, THE ORIGINAL CENTER Dot for scope sights. Installed promptly your J, K and 330-440 Weavers $8.00; Alaskan, Texan New Noske $12.50, Cub $10.00. New scopes already equipped, instant shipment. J2.5 $30.50, J4 $35.50; K2.5 $45.50, K4 $53.00, K6 $56.50. Texan $62.50, Alaskan $72.50, Deluxe Cub $65.00. Weaver mounts all rifles. Stith and Redfield for 70-99. Litschert attachments list. T. K. Lee, PO Box 2123, Birmingham 1, Alabama. tf.

TELESCOPES, BINOCULARS, MICROscopes,— big bargain catalog free. Brownscope Company, 24 West 45th Street, New York. tf.

LEATHER LENS COVERS FOR ANY SCOPE, regular $1.50; Stith mounted $1.75, at your dealer or prepaid by Hicks and Morris, Box 809, Hot Springs, New Mexico. tf.

PRISM BINOCULARS—FINEST U. S. GOV'T optics. Huge 50mm. coated objectives. Less than half price 7x50mm. $79.50; 10x50mm. $89.50; 12x50mm, $92.50 plus tax, prepaid. Literature on request. DeMaurier Binocular Migrs. Dept. 191, Elmira, N. Y. tf.

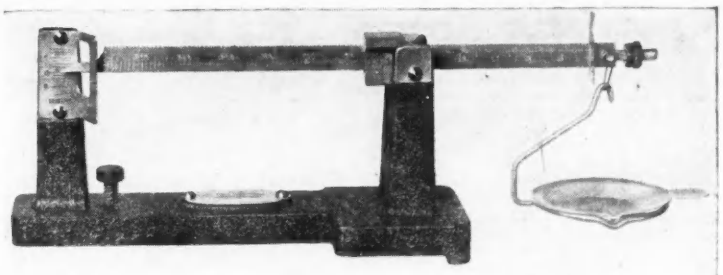
TRADE NEW SCOPES FOR GERMAN scopes. Zeiss, Ajack, Hensoldt bought, sold, traded. Robert S. Thomas, Silver Spring, Maryland. 3-48.

TWO HENSOLDT-WETZLAR DIALYTAN 4X scope, perfect $80.00. Carl Wiersema, Morrison, Illinois.

ARGUS 20X SUPER GRADE, PERFECT, with leather case and strap $73.00. Ross Johnson, 1420 Seymour, Laredo, Texas.

MICROSCOPE — ZEISS BINOCULAR USED but perfect. Mahogany case, $75.00. W. C. Eyles, Yermo, Calif.

NEW ENGLAND SHOOTERS
LOADING TOOLS
BULLETS—PRIMERS—POWDER
REBARRELING FOR POPULAR & WILDCAT CARTRIDGES
THE GUN SHOP
8 NO. MAIN St., CONCORD, N.H.



AT LAST! The new REDDING Powder and Bullet Scale! Attractively finished—Attractively priced! $11.95 Postpaid. Has easily read graduated beam and counterpoise—new type self-aligning bearings—tenth grain over and under graduations—large capacity pan with handle and pouring lip—brown wrinkle finish base with leveling screw—325 grain capacity. These features plus a tenth grain accuracy guarantee, ease of operation, practical design, and low cost make the Redding scale the choice of the particular handloader. Folder on request.

ORDER THROUGH YOUR DEALER OR DIRECT. IMMEDIATE DELIVERY

BOX 524 **THE REDDING COMPANY** CORTLAND. N.Y.

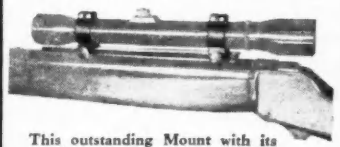
CONVERSIONS

Enfields, Springfields and Mausers made into sporting rifles. Custom barrel work. Your Win. 52 made into sporter to your specifications. We are familiar with the needs of target shooters and can handle your work promptly. Write for price list.

THURMAN RANDLE & CO.
208 N. Akard St. Dallas 1, Texas

BOUND VOLUMES
AMERICAN RIFLEMAN FOR 1947
In black buckram, with title and year stamped in gold. Also a few bound volumes for 1945 and '46. **$5.00** per vol. ppd.
N. R. A. 1600 Rhode Island Ave., Wash. 6, D. C.

Hill RING-MOUNT
Now available for new Winchester Model 70



This outstanding Mount with its simple rugged design assures you of the accuracy that expert marksmen demand.
Write for Free Illustrated Folder
CLARENCE HILL
Dixon, Illinois

CUSTOM RIFLES

Built to *your* specification on *your* action. Hunting, Varmint or Match barrels in all standard, and most wildcat calibers. CUSTOMBILT stocks, scope mounts and trigger mechanisms. 35 years experience. 16 years in our present location.

ROY GRADLE, *Life Member*
205 W. Islay, Santa Barbara, Cal.

"SAVE A DELAY IN SHIPPING— WE HAVE THE FOLLOWING ITEMS IN STOCK"

Mercury Outboard Motors

3.6 H.P. $134.90; 7.5 H.P., $189.50; 10 H.P., $275.00.

Fecker Rifle Telescopes

Woodchucker $62.50; 1¼", $70.00; 1⅝", $98.50.
SHOOTERS KITS—Pistol: 4 Guns, $31.25; 3 Gun, $27.00; Utility 4 Gun, $15.50.
SHOOTERS KITS—Rifle: .22 Caliber, $12.85 to $16.95; .30 Cal., $27.00.
WEAVER SCOPES—New & Used. K2.5, K4, 330, 29 S. Real Bargains.
LITSCHERT ATTACHMENTS—330, 6 & 8 power; Others, 6 X only in stock.
REMINGTON, NEW & USED—Model 37 and Model 513 S.
WINCHESTER H.B.—52's in stock. Also, Model 94's, 30-30, 25-35, 32 Special.
JAEGER RIFLES in stock—250/3000, 22/250, 257, 220.
WINCHESTER MOD 70 N.S.—30.06 ONLY. Used. Very good, 70-20 with 29 S Weaver Scope. 6X.
BELDING & MULL LOADING TOOLS—Improved Model 28, $19.50; Powder Measures, $12.50.
PACIFIC TOOLS—Standard, $28.75; Super, $35.75.
PACIFIC POWDER SCALES—$8.50.

Sam P. Simpson & Sons

2715 Center Street
Ingram, Allegheny County, Pa.

Now for EVERY WORK SHOP!
NEW Invention **Electroplates by BRUSH**

Easy to Plate CHROMIUM
GOLD, SILVER, NICKEL, COPPER
. . . For Pleasure and Profit!

If you have a workshop—at home or in business—you need this new Warner Electroplater. At the stroke of an electrified brush, you can electroplate models and projects—you can replate worn articles, faucets, tools, fixtures, silverware, etc. with a durable, sparkling coat of metal . . . Gold, Silver, Chromium, Nickel, Copper or Cadmium. Method is easy, simple, quick. Everything furnished—equipment complete, ready for use. *By doing a bit of work for others, your machine can pay for itself within a week.* So make your shop complete by getting a Warner Electroplater right away. Send today for FREE SAMPLE and illustrated literature. ACT AT ONCE!

For
- MODEL MAKERS
- MAINTENANCE
- HOBBY SHOPS
- HOME SHOPS
- SALVAGE PARTS

WARNER ELECTRIC CO., DEPT. R-6
1512 Jarvis Avenue, Chicago 26, Ill.

FREE *Details & Sample!*

WARNER ELECTRIC CO., 1512 Jarvis Ave., Chicago 26, Dept. R-6
Gentlemen: Send Free Sample and Details to:
*Name*_____
*Address*_____
*City*_____ *Zone*_____ *State*_____

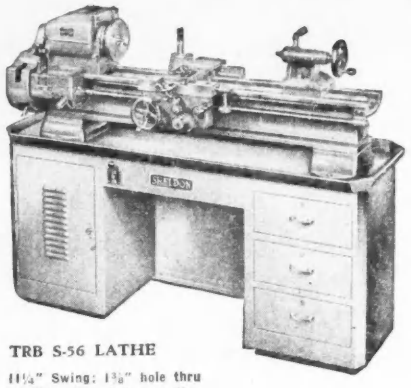
SHELDON

Gunsmiths find what they want in SHELDON S-56 series Precision Lathes, and in this series they like the TRB S-56 Lathes, best for extreme accuracy; ("Zero Precision" Taper Roller Bearings) extra capacity (1⅜" hole thru spindle); 56" bed that's just right for all but the very long antiques.

They like the 4-speed underneath drive, full quick-change gears, double-walled worm feed apron with power cross feed and modern welded bench with heavy plate top and 3 drawers . . . and they like its price. It's by far the most lathe for the money ever built.

Write for Bulletins

SHELDON MACHINE CO., Inc.
4243 N. Knox Ave. Chicago 41, Ill.
Booth 936 A.S.T.E. Show Cleveland Mar. 15-19



TRB S-56 LATHE

11¼" Swing; 1⅜" hole thru spindle; 1" collet capacity; Zero Precision Taper Roller Bearings.

SAECO

TRU-SPEED PRECISION POWDER MEASURE

Adjustable Measure, Rifle or Pistol Model	$12.50
Extra Adjustable Drum, Rifle or Pistol Size	4.00
Bench Stand (as shown)	3.25

Dealer Inquiries Invited

SANTA ANITA ENGINEERING CO.
2435 E. Colorado St., Pasadena 8, Calif.

• GUNSMITHING

A complete service
Fine sporting and varmint rifles
Custom stocks made to order

REBARRELING

.219 Donaldson Wasp	.22 Hornet
.219 Zipper	.30-40 Krag
.219 Imp. Zipper	.30-06 Gov't.
.2R Lovell	.300 H. & H. Mag.
.22-250	.300 Savage
25-35 Win.	.270 Win.
35 Whelen	7mm Mauser
375 H. & H. Mag.	.257 Robts.
.218 Bee	.250-3000 Savage
.218 Imp. Bee	.270 Ackley Mag.
.220 Swift	.275 Ackley Mag.
	.300 Ackley Mag.

I. O. STONE CO.
Life Member
23540 W. Eleven-Mile Road,
Route 3 Birmingham, Michigan

The MODEL "C" LOADING TOOL

DOUBLE CAVITY BULLET MOULDS ALSO AVAILABLE

DELIVERY TWO WEEKS

Send 10c for latest catalog on hand loading

MODERN-BOND CORP.
813 West 5th St. Wilmington 99, Del.

FIRST CLASS

SHOPS ALL OVER THE U.S. ARE NOW USING THE VICKERMAN ACTION WRENCH AND BARREL VISE

Vickerman Action Wrench.....$19.50
Fits all actions, bolt, lever, or slide. Will remove action from tightest bbl.

Vickerman Barrel Vice & 4 Sleeves.....$18.50
Sleeves fit all* hi-powered factory & military bbls. Holds without marring.

*M70 & 54 require special sleeve.

Deliveries Approximately 10 Days

Gunsmith **W. S. VICKERMAN** Life Member
208 So. Ruby St. Ellensburg, Wash.

NYLON

NYLON— THE PERFECT CROSS HAIR

EXTREME SHOCK STRENGTH. Unsurpassed for resistance to heat, cold and dampness. Excellent sharpness and opacity. Installed in U. S. and foreign-made hunting and target scopes. All diameters.
U. S. makes $6.00 Foreign makes .... approx. $9.00

NEW SCOPES IN STOCK WITH NYLON CROSS HAIRS—
Weaver K2.5, coated ..... $40.00 Weaver J2.5 scope $25.00

THIE-WEN CO. Town Line Road, North Java, N. Y.
The originators of NYLON CROSS HAIRS

Improve Your Score with the CANJAR

SET TRIGGER FOR 52 WINCHESTER

Easily installed. No drilling or cutting on rifle necessary. Removal of one screw makes trigger legal for N. R. A. matches requiring 3-pound trigger pull. Satisfaction guaranteed or money refunded. Send today for descriptive folder and price of the Canjar Set Trigger.

M. H. CANJAR 4476 Pennsylvania St. Denver 16, Colorado

New Designs in

FRANZITE GRIPS

Modernize YOUR GUN! Improve YOUR SCORE!
Most durable grips made. Positively unbreakable! For Colt, Smith & Wesson, Hi-Standard, Ortgies, Luger and Mausers in a wide choice of beautiful designs in ivory, pearl, walnut, onyx, etc. Low prices. FREE CATALOG. Dealers Wanted.
Sports Inc. (Mfrs.), 5501 Broadway, Dept. A-3, Chicago 40, Ill.

QUICK, EXPERT REPAIRS MADE ON BInoculars, telescopes, and other optical equipment. Binoculars accurately aligned by collimator. Instruments coated. Estimates submitted on request, upon receipt of instrument. All work guaranteed. Binoculars bought, sold and traded. Send your requests to us for prompt attention. Op-Tech Instrument Service Co., 20 Maiden Lane, New York 7, N. Y. 3-48.

NEW SCOPES—ALASKAN, $52.50; TEXAN, $49.00; K2.5 $34.00; K4, $40.00; J2.5, $20.00; Texan Lee Dot, $54.50. Write for price on mounts. Jack Waterman, 3829 Kerckhoff, Fresno, Calif. 3-48.

PRISM BINOCULAR CASES, TAN LEATHER, new, for 6x30 and 8x30 binoculars, $5.00 each. Special 7x50 prism binocular cases, brand new, will fit most 7x50 or 10x50 prism binoculars, value $15.00 special price $7.50. Elbow prismatic telescope 8½ power. Cost Government $200.00. Brand new, $35.00. Rifle telescopes Weaver 330, $29.50; K2.5, $39.50; K4, $45.00; J2.5, $22.50, brand new. Weaver mounts $7.50 extra. Mossberg rifle telescopes with mount, new, model 4M and 5M, $9.50 each. Forward money order. No C.O.D. shipments. Send coin $1.25 for Third Annual Edition of Gun Digest together with our complete catalog of new and used guns, ammunition, rifles, binoculars and powder flasks. Our separate catalog 25c. Public Sport Shops, Dept. P-75, 11 So. 16th Street, Philadelphia, Penna.

NEW WEAVER SCOPES: G4, $8.95; J2.5, $19.95; J4, $24.95; K2.5, $34.00; K4, $40.00; K6, $43.00. (all K scopes coated) Immediate delivery. New slocomb 0 to 1 inch mikes, $3.95. Money back guarantee. Stamp appreciated. Joe Ivy, 910 Burlington, Dallas, Texas.

BINOCULARS—NAVY 7x50 COMPLETE WITH case, new condition, coated lens $80.00. Brouhard, 421 East Olive, Decatur, Illinois.

CAMERA ZEISS CONTAX II, EVERREADY case, Sonnar F.2 lens, 1/1250 second shutter, perfect, $400.00. William Brown, 528 West Robinson St., Mexico, Missouri.

E. LEITZ 7x50 BINOCULARS, COATED optics. Like new, never used, complete with new case and filters $120.00. George Moon, Box 903, Port Arthur, Texas.

BINOCULAR CASES, NEW; FOR 7x50 AND 10x50, marked B&L, $7.50. Kodak style finest quality leather for most 6x and 8x, $5.50. Also box or kodak style made to order. Miralel Repair Co., Mount Vernon, N. Y. tf.

SIGHTS—RETAIL AND WHOLESALE. WE believe that we have the largest and most complete stock of all makes of sights, scopes and mounts in the United States. Write us regarding your sight problems. Dealers inquiries invited. Original Sight Exchange, Box J, Paoli, Penna. tf.

USED PERFECT SCOPES—UNERTL 1" 6X 8x 10x $49.00. 1¼" 8x 10x $66.00. 1¼" 12x 16x $76.00. 2" 10x 12x 15x $106.00. Weaver J2.5 $19.50. K2.5 $32.00. K4 $38.00. Hensoldt 4X excellent $35.00. Malcolm 10X v. good $15.00. 438 Lyman v.good $18.00. Lyman Alaskan good $35.00. 330 Weaver Lee Dot excellent $22.50. Aurand's, 229 E. Third St., Lewistown, Penna.

16X40 CARL ZEISS-TELSEXOR BINOCulars, individual focusing, fine black leather case with carrying strap, all excellent condition $200.00. David M. Cowan, Jefferson Building, Greensboro, No. Car.

USED ARMY FLYER'S GLASSES, $4.50 with case 200 pair; Bausch & Lomb and American Optical, very good condition. Harter's, 2970 Adeline, Berkeley, California.

B&L 6x30 BINOCULARS FOR SALE, PREwar commercial excellent condition $75.00. Paul Barnett, Ellinwood, Kansas.

GUNSIGHTS—WHOLESALE PRICES TO licensed firearms dealers and gunsmiths. Write for list of scopes, metallic sights, reloading tools. Wahl, Bogota, New Jersey.

WEAVER #330 SCOPE PERFECT, NEVER used, price $31.00. R. J. Rowe, 329 Plymouth Avenue, Wilkes-Barre, Penna.

BINOCULARS IN STOCK, B&L, 6X30, 7X35, 7x50, 8x30, 8x40, 9x35 Zeiss 6x30, 8x30 binocular folder free. Trades accepted. J. L. Vincent, Sporting Goods, Aud, Missouri.

K-T SCOPE STANDS

Sturdy Right-Angle Stand. Immediate Delivery. Satisfaction Guaranteed. **$15.00**

H. H. Kirby & C. B. Thorington
Box 392 South Gate, California

B&L BINOCULARS, 10x45mm. prism Marine, built in filters, individual eye focus, leather case and strap, excellent, $165.00. S. E. Procknow, 4823 W. Montrose, Chicago, Illinois.

6x30 BAUSCH & LOMB, TYPE EE PRISM binoculars, individual focusing with leather case, excellent condition, $47.50. 6x30 Universal Navy binocular with case, excellent condition, $57.50. 16x50 Hensoldt prism monocular, featherweight, like new, $95.00. 7x50 Hensoldt prism binocular, feather-weight, central focusing, like new, $165.00 with case. Sportsmen's Supplies, 250 West Bayberry Lane, Upper Darby, Penna.

BINOCULARS, SCOPES CLEANED AND REpaired, aligned on collimators to naval tolerances. Enlab Optical Studios, Lincolnville, Maine.

ZEISS ZIELVIERS, COATED, BLUED, TILden mounts, M70, M98. Perfect. Hensoldt Wetzlar Dural new prewar. G&H micrometer mounts. Ajack 4x90. 7x50 Hensoldt roof prism binoculars, coated. Robert S. Thomas, Silver Spring, Maryland. 3-48.

CARL ZEISS SPOTSCOPES 12X, 24X, 42X, tripod, case, $150.00. Philip Johnson, Angola, Indiana.

HENSOLDT BINOCULARS (COMMERCIAL) C.F. 8x24, light, (20 oz) compact, excellent for hunting. Case, e.g. $45.00 cash. C.O.D. Inspection, $5.00 deposit. J. Duffy, 1321 Delaneld Place, N.W. Washington, D. C.

ARGUS SPOTTING SCOPE, COATED lenses, perfect, stand, leather case, $70.00. B. R. Powell, Citizens National Bank, Waco, Texas.

WEAVER 29S, LITSCHERT 6X ATTACHment, all lense coated, bluing worn, optically perfect, $30.00. Melvin Walton, Kingsville, Ohio.

BAUSCH & LOMB BINOCULARS: 7x35 Zephyr-light, $168.00; 6x30 Zephyr-light, $162.00; 7x50 not Zephyr-light, $194.40; 8x30 Zephyr-light, $180.00; 9x35 Zephyr-light, $186.00. 20% Federal Excise tax included in above prices. Trade-ins allowed. Martin Instrument Co., Easley, So. Car.

UNERTL SCOPES, 2" $125.00. 1½" $90.00. 1¼" $78.00. 1" $58.00. Small Game $40.00. Varmint scope $75.00. Tube sight $24.00. Fecker scopes 1-5/8" $98.50. 1¼" $70.00 all in stock, trades accepted. J. L. Vincent, Sporting Goods, Aud, Missouri.

NEW 7x50MM. BINOCULARS, COATED optics, and case. Navy surplus, $90.00. Hugh DeFrance, 986 Woodlawn Avenue, Newark, Ohio.

TELESCOPE SIGHTS, ACCESSORIES AND gun cases wholesale to dealers, gunsmiths and gun clubs. Price sheet free. J. L. Vincent, Sporting Goods, Aud, Missouri.

65MM. B&L PRISMATIC SPOTTING SCOPE 20 and 27X eyepieces Freeland stand new condition $110.00. 6x30 Zeiss lightweights I.F. prewar, like new, $125.00. 8x30 Zeiss lightweights I.F. excellent, $95.00. 7x50 German Army no mill scale I.F. very good $95.00. Zeiss Zielklein excellent $50.00. Have new Alaskans, Texans, Weavers, Leupold scopes at a saving to N.R.A. Members. Write for list. F. J. Weiss, 2201 No. 15th St., Sheboygan, Wisconsin.

BALLARD RIFLE .22 TARGET STOCK. Johnson barrel, telescope blocks, $95.00. Right angle Unertl scope $85.00. Write information. J. H. Stevenson, 5746 Rogers Avenue, Merchantville, N. J.

SCOPES AND TARGET RIFLES—NEW AND used, all kinds and makes. Everything for the shooter, State wants. Lists for stamped envelope. George Milnes, Fifth St., Ellwood City, Penna.

BINOCULARS ZEISS 18X50 USED EXCELlent $240.00. Malcolm B. Gott, 1216 Trenton Place, S.E., Washington 20, D. C.

9X50 COATED PRISM MONOCULAR, TAN case, new $60.00. Gus Straus, 102 San Antonio, El Paso, Texas.

TEXAN RIFLESCOPES—$40.00. LEUPOLD riflescope, $45.00. Mashburn mounts, $12.00. All new. Trades considered. Sitz Unltd, Box 85, Beverly Hills, California.

RIFLE SCABBARDS

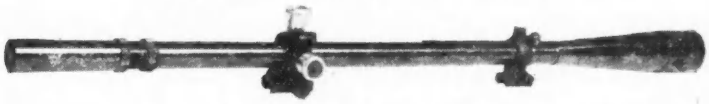
Will take Remington Auto-Bolt Action, etc. Leather scratched but in good serviceable condition; no straps; $2.00. These are good heavy sole leather scabbards.

CHRISTY GUN WORKS

873 57th Street Sacramento, Calif.

Announcing

The New "SPOT-SHOT" 1-¼" Objective TARGET and VERMIN SCOPE, 10X and 12X

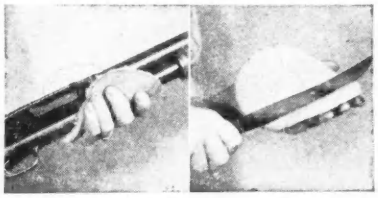


These scopes are precision made, have coated optics, ¼ minute click mounts, and new sliding-sleeve focusing adjustment. These scopes are made to fill a long felt need for a medium priced target scope that will really fill the bill. Gives service and stays put. Write for our new literature on these new "SPOT-SHOT" scopes.

PRICE for "SPOT-SHOT" scope 10X or 12X, $39.95, complete with mounts.
EXTRAS: dust caps $2.50, recoil spring $2.50.

Write us or see your dealers for the new "SPOT-SHOT" scope.

R. A. LITSCHERT Dept. A WINCHESTER, IND.



Protects Anything That Rusts!

Natural sheepskin wiper treated with a proven Rust Inhibitor. Positive protection against rust for firearms, skates, tools, tackle, etc. Does not pit or damage the finish of finest steels in any way. Lasts for years. *Recommended by leading Gun Editors.*

Sold throughout the world. Ask your dealer. **25c**

DEX-KLEEN WIPER

Manufactured by

DECKER BROS., INC. Mason City, Ia.

JORDAN

MULTIPLE RELOADING PRESS

MASTERS MACHINE WORKS

Brookville, Penna.

Pat. Pend.

ALSO DISTRIBUTORS

Kant-Kant Targets

Take the Kant out of your shooting! Kant-Kant personalized telescope sight targets in binder books of 100 targets; 100 yd. $1.75; 200 yd. $2.75. Give name of scope, power, and size of crosshairs. See us for refills.

YOUR RIFLE **BORESIGHT**

SAVE TIME AND AMMO

IT'S SIMPLE IT'S QUICK

IT WORKS

BORESIGHTER will sight in your rifle with amazing accuracy **without firing a shot!** Indispensable for checking sights BEFORE HUNTING! Takes one minute to be sure! You'll want one for each size bore. Lever, slide, or auto actions require bore mirror.

BORESIGHTERS, any bore size $1.00
Bore Mirrors ..... .25
Order direct and specify caliber

Send for price list. **TOM FROLEY** For hard to get tools.

694 Northumberland Road, West Englewood, N. J.

TOOL STEEL DRILL ROD $1.95 POSTPAID in Continental U.S. C.O.D.'S ACCEPTED

25 Rods SAMPLER KIT 25 Sizes

Ground and Polished to a Perfect Finish

1001 uses for Craftsmen, Hobbyists, Mechanics, etc.

For Making
Firing Pins
Sears
Flat Springs
Hammers
Triggers, etc.

Free machining, easily worked, yet can be made file hard, or hardened to spring temper. Hardening instructions included!

FREE
With every kit or first order, 6" steel combination rule & depth gage with pocket clip and latest price list.

FLAT TOOL STEEL
SHOP ASSORTMENT - - $4.80
5 dif. Pieces—1/32" to ½" thick; ½" wide; 18" long.
BOTH KITS FOR $6.50

Complete **aluminum-brass-stainless & tool steel** stocks
Include 25¢ postage on orders under $5.00

BESSEMER STEEL COMPANY OF AMERICA, Dept. K. C. 15
1958 W. 59th St., Chicago 36, Illinois

HAZE H. (SANDY) SANFORD

COMPLETE GUNSMITHING

Military Conversions to any Popular Caliber

13960 GRANDVILLE AVENUE DETROIT 23, MICHIGAN

Antique Firearms Authentically Restored

On and after APRIL 15th, we will be open for business at our new location, **CENTRAL LAKE, MICHIGAN**

The TOMPKINS PRECISION .22 PISTOL

A REAL single-shot .22 Cal. Pistol designed and made exclusively for target shooters. The gun—with patented trigger action that is improving the scores of expert and novice alike. Retail Price $88.26. Fed. Tax Included. Place your order through your dealer.

Varsity Mfg. Co. 135 Union Street Springfield, Mass.

CUSTOM LOADING SERVICE

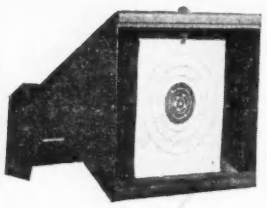
All wildcats, German and Jap cartridges. Case forming specialist.

J. W. McPHILLIPS
285 Mastick San Bruno, Calif.

DETROIT BULLET TRAPS

ARE NOW USED EXCLUSIVELY BY

- **Ed McGivern, world famous fast and fancy revolver shot.**
- **Claude Parmelee, Internationally famous big-game hunter and exhibition shooter.**
- **And a host of others, amateur and professional.**



The reasons why they are using Detroit Bullet Traps are obvious: These popular portable bullet traps are compact, simple, inexpensive and they provide highest efficiency without the use of sand or waste. They are ideal for .22 caliber rifles and all caliber pistols and revolvers.

CLAUDE PARMELEE MODEL, 16" x 16" x 55 lbs. $25.00 FOB Detroit.

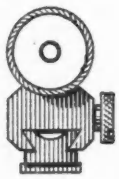
STANDARD MODEL, 12" x 14" x 37 lbs. $16.00 FOB Detroit.

DETROIT BULLET TRAP COMPANY

8600 LYNDON AVENUE • DETROIT 21, MICHIGAN

More bullseyes!

use the new G. & H. Clear Vision Target Front Sight



$7.50

JUNIOR
Clear Vision Front Sight
Fits all standard barrels. Good for small game or plinking. **$5.00**

Clear view of target, black center circle defines target, eliminates cross firing! Apertures of .90, .100, .120, .140 and .160. Ideal for Winchester 52 H. B., Remington 37 and all H. B. single shot rifles.

GRIFFIN & HOWE, INC. • 202 East 44th St., New York 17, N. Y.

SAM BOND

NEW PHILADELPHIA, OHIO

WINCHESTER TARGET RIFLES

M/52BG 105.55, M/52HB 89.15, M/52 Std. 79.50, M/75 53.50, M/69 22.60, 23.50, 27.15, 37.80, M/70 Target 151.80.

WINCHESTER and WESTERN CTGS.

22 L.R. Reg. 10.76 M. Match 12.92, 32 S&W W.C. 2.00, 38 Spec. W.C. 2.65, 38 S&W 158 gr. 2.50, 45 Auto. 3.90. Clubs write for special case lot price.

ACCESSORIES

Jumbo Woolskin Gun Cases, Barktanned Oil Treated Cowhide Trim, Handle & Strap Std. size 9.60, for Rifle with scope 11.25, Best Buy Today, Bond Arm Band 4.50, Sling 1.50, Hook .50, 10x Coats 13.00, Good Used Army Slings .75, Metal Keepers 1.50, Lehman Mounts 9.00, No-Slip Butt Plate 2.00, Recoil Pad 1.25, Pot-Shot Lens Covers 2.50.

SIGHTS and SCOPES

Unerti-Fecker-Weaver (Lyman Limited Supplies) at regula rlist price. Redfield Olympic 15.75-8.50, Lyman 48, Enfield & Mauser 12.50, No. 77 5.00, G.H. Fr. 7.50, Unerti Tube 24.00, Right Angle Scope 96.00, 2½" 24 x Straight 80.00, Bausch & Lomb Draw Tube 40.00.

LOADING SUPPLIES

Lyman True-Line Press 22.00, Pacific 28.75-35.75, Lyman No. 55 Powder Measure 10.00, Pacific Scales 8.50, Primers All Sizes 6.00 M, Bullets, Cases, Limited Supplies.

WAR SURPLUS

30-06 ENFIELD RIFLES Issued in excellent condition	**$37.50**
U. S. GOV. RECOIL BOOTS Prewar rubber to fit all shotguns and rifles	**69c** each
16 GA. SHOTGUN SHELLS Western Expert, No. 1 Buck.	**$6.00** per 100
10 GA. REMINGTON KLEANBORE Nitro express, 3½" magnum shotgun shells, 25 shells in a box	**$5.00** per box
45-70 BLANK CARTRIDGES By Western Ctg. Co., value $15.00	**$5.00** per 100
ARGUS OBSERVATION TELESCOPE Super grade., 20 power, coated optics, new condition.	**$59.50**
CARRYALL ROLL-TYPE CANVAS Olive drab, heavy canvas for general use, hikers, hunters, travelers and general use for all athletic equipment.	**$2.00** each

PUBLIC SPORT SHOPS
11 S. 16th St., Phila. 2, Pa. No COD's

HUNTERS' SERVICE

Repairing by skilled Gunsmiths, expert on all makes and models of Shotguns (single or double trigger), Rifles, and Revolvers. Quality restocking of all firearms, custom or standard grades. Barrels reblued and refitted. Ship us your guns for quotations. All work guaranteed.

LeMaire Gunsmith Co.
503 Oneida Street Fulton, New York

- MILITARY CONVERSIONS -

Barreling . . . Stocking . . . Chambering
General Gunsmithing
Bluing——————Plating
Write for price list
All work fully guaranteed.

POLLEY BROS.
2711 Inwood Rd., Dallas 9, Tex.

DEALERS

We are distributors for Colt and S&W Revolvers. Write for price list. USED revolvers and automatics on hand.

JOHN JOVINO CO.
5 Centre Market Place, N. Y. 13, N. Y.

'SCOPE SPOT

DOT RETICULES for any 'scope. Perfectly round, accurately sized, exceptional strength. Weaver, Alaskan Texan 'scopes: King-Pike, Redfield, Weaver mounts; Litschert attachments. FREE FOLDER & price list.

T. W. STEIN 854 S. Washington BUTTE, MONTANA

---

620 KODAK REFLEX WITH CASE f3.5 coated lens, Kodamatic flash shutter, excellent $110.00. 35mm. Kodak with coupled range finder, case and flash holder, flash Kodamatic shutter, excellent $80.00. Weston Master II exposure meter excellent $20.00. Dennis Modeen, 1015 MacArthur Avenue, Ashland, Wisconsin.

DAVIDSON MARK 218 SPOTTING SCOPE perfect $19.00. H. Galan, 5178 W. 132nd St., Hawthorne, Calif.

GUNSMITH'S SERVICES & SUPPLIES

ANTIQUE ARMS REPAIRED AND SPRINGS made, also do bluing and old style browning. Moderate prices. Send work express prepaid. Kimball Arms Company, Woburn, Mass. tf.

STOCKING, REBLUING, FLINTLOCKS RE-stored. Since 1916. Bailey, Lisbon, New Hampshire. 3-48.

PLAIN GUNSMITHING. REVOLVER AND rifle conversions, rebarreling. Low bolt handles. Pop Eimer, Joplin, Missouri. Member American Gunsmiths Guild. tf.

COLT SINGLE ACTIONS REPAIRED AND altered to .38 special. Bill Kirsh, 1284 Sunset Blvd, Los Angeles, Calif. tf.

GERMAN PISTOL AND RIFLE PARTS. Parts for most American Firearms. Send stamp for free list. Repairing and reconditioning on all handguns, rifles, and shotguns. Western Gun Exchange, Whittier, Calif. 5-48.

FANCY STOCKS, CHECKERING EXPERT bluing. Rebarreling in .22-250 and most calibers at $37.00, includes bluing, scopes mounted free if I furnish scope and mount. Bishop stocks completely finished $28.00. Send for folder. Mesicks Gun Shop, Rt. #1, Dundee, Illinois. tf.

BEAUTIFUL TARGET AND SPORTING rifles, built by master gunsmiths, in all popular calibers, Magnums and Varmint rifles. In a new spacious shop, with enlarged personnel and facilities, we can offer barreling to 30-06 at $18.00, 5 day service. Other calibers $25.00 up. Plain and fancy stock work $35.00 up. Expert bluing, efficient repair service full line of general gunsmithing. Dealers and Gunsmiths get 10% and fast service. Stamp appreciated. Ben's Gun Shop, Pleasant Gap, Penna. tf.

RIFLE AND GUN STOCK BLANKS IN FOLlowing woods. Birds eye and curly maple, extra fancy Oregon Myrtle, American walnut blanks, ebony blocks for fore-end tips. Special inletting service to gunsmiths. D. W. Thomas, Box 184, Vineland, N. J. tf.

GENERAL GUNSMITHING: REBARRELING, restocking, rebluing, bolt and action alterations. Gold, silver, chromium plating. Parts made for foreign & obsolete guns. Scaramuzzo, 601 South Halsted, Chicago 7. tf.

A NEW BISHOP TARGET STOCK IS NOW available. You will hear more about this stock as it is what the smallbore shooter is waiting for. Has large size ebnite forend cap and grip cap, Mershon whiteline no-slip butt plate, no extra charge. Price complete, $11.50, postpaid. A new Mannlicher type stock is also available, and is supplied with a neat steel muzzle band with screw at no extra charge. Price complete $11.50, postpaid. E. C. Bishop & Son, Inc. Warsaw, Missouri. tf.

CHAMBERING REAMERS, VISES, DIES, Wright ramps, other supplies. List. Wright's Gun and Tool Shop, Bloomsburg, Penna. tf.

WALNUT GUN STOCKS, SEMI-INLETTED or completely fitted to your action. J. Szczepanik, Englishtown, N. J. tf.

CHECKERING TOOLS, HAND FILED. SET of three-checker, border and cleaner, also directions. Popular 16 line set $2.75; 18 or 20 line $3.50, postpaid. Thousands of satisfied users sold past 15 years. Free catalog. Warner Products Co., Baldwinsville, N. Y. 1-49.

DELUXE CUSTOM RIFLE BUILDING. Three distinct models, Standard, Light and Featherweight: 30-06, .270, .300, .257, .250-3000, .22-250 caliber. Built on your 98 Mauser, Springfield or Enfield actions. Super Featherweight in .257, .300, 250-3000, .22-250 on Columbia Jeep action. Your 98 Mauser and Springfield action shortened. Columbia Gun Co., N2220 Division St., Spokane 13, Washington. 5-48.

YOUR 99 SAVAGE ALTERED TO 300 CALIber, bluing, rebarreling. Bayer's Gun Shop, Walla Walla, Wash. tf.

ARTISTIC ENGRAVINGS ON FINE GUNS: Game scenes in relief; gold inlay; scroll work, etc. Folder on request. A. Griebel, 4724 No. Keystone Avenue, Chicago 30, Illinois. 7-48.

CUSTOM REBARRELING, BUHMILLER blanks only. Calibers .30-06, .30-40, .300 H&H, .270, .257, .220 Swift, .22-250, Standard Hornet, also .22 Long Rifle, Match grade barrels. Kenneth L. Hooper, Box A, Eureka, Montana. tf.

GUNSMITHING, REMODELING, REBLUING. J. A. Bibey, 122 South Lincoln, Roseville, Calif. tf.

CUSTOM RE-BARRELING, MILITARY CONversions, sights, scopes mounted. Lewis Gun Shop, 814 Main Street, Towanda, Penna. tf.

CHECKERING TOOLS—HAND-FORGED, OF highest grade hardened steel; set of 4, with complete instructions, only $6.00. Wilson Industries, Inc., West Hempstead, New York. 3-48.

FIRST CLASS BLUING, RIFLES $5.50. Handguns $3.50. Send guns express prepaid. Joseph Matechik, 742 Roosevelt St., Hazleton, Penna.

BEAUTIFUL SPORTERS FROM YOUR military rifle. Stocking, bluing and rebarreling in all popular calibers including .219 Wasp. New sights, scopes, mounts, Cutts and Weaver chokes. Furnished and installed. Reasonable prices. The Gun Shop, 200 Sweetland Drive, Chattanooga, Tennessee.

ENFIELD 1917 EJECTORS, GUARD SCREWS, long and short for Springfield, Enfield, Krag, Mauser .35¢ each, $3.00 dozen, new, postpaid. Robert Woerner, 6536 Oxford Avenue, Philadelphia 11, Penna.

U.S. NAVY DECK OFFICER'S TELESCOPE, 12½ power micrometer focusing. Complete with Freeland scope stand—$27.00. Samuel Kravitt, 288 York St., New Haven, Connecticut.

ENFIELDS COCK ON OPENING. SEND cocking piece only. New tool steel insert, extra strong spring, postpaid $6.00. Less than ¼" travel. No welding. Install yourself, save ½ price. Three day service. Strine Arms, Cardington, Ohio.

SAVAGE FOX STEVENS OTHER MAKES former chief gunsmith Savage 25 years. Louis Ceitschi, Prospect, New York.

FULL LENGTH CASE RESIZING DIES, $3.00; adjustable straight line bullet seaters, $4.00. Over 90 calibers, including German, Jap and Wildcats. Fully guaranteed. Postage extra. R. D. McCaslin, Centralia, Kansas. 4-48.

YOUR HAMILTON AIR CORPS POCKET Watch converted to regular 12 hour dial. $15.50. Robert Modroo, Williamsburg, Michigan.

TWO WEEK BARREL FITTING SERVICE two bolt actions in most all popular calibers, $32.50 for sporters and $35.00 for target wt. Barrels are Buhmiller chome moly preturned for highest accuracy and straightness. Chambering is based on best practice gained from ten years of barrel fitting for highest possible accuracy. Headspace allowance is .004" max. Prices as low as $27.00 net to shops on sporter barrels to their actions. Particulars on application. Have some select military, and some new FN Mauser actions fitted with above barrels $65.00 and $75.00 net respectively. Sell following of my personal stuff to get shop funds. .22-250 Mauser, Win. Swift sporter barrel, remodeled military solid walnut stock, pad, sling, Fecker 8x1½" scope, uncoated, all very good $125.00. This is my field vermin rifle, and has shot one inch groups at 200 yards, 5 shot. Barrel has had about 300 rounds. B&L binoculars, 7x35, as new, uncoated, $100.00. 6x30 military, same, 1940, uncoated, very good, $37.50. Win. Enfield, .270, 24" sporter, ears off, guard straight, fitted in Rem. 30-S stock, sling, reblued, test fired only, all new, no sights, $115.00. Will fit sights wanted at list. Mauser 7.63 military pistol wood case, good all. 2 boxes factory shells, $35.00. Remington .44 cap and ball pistol, bore almost perfect, very good remainder, reblued, 6 cavity mould, $50.00. 2 Krags, 30-40, new Springfield barrels, Redfield 100 K rear and issue front sights, $45.00 each, stocks one carbine, and one long, cut down. Winchester high side, action, new in 1933, flat milled sides, double set triggers, Griffin & Howe Circassian stock, new. .219 improved barrel, test fired only, very good $150.00. For barrel fitting, tag your actions carefully and ship via Parcel Post to G. R. Douglas, R3, Box 297-A, Charleston, W. Va. or via Express to Nitro, W. Va.

GUNSMITHING AND MILITARY RIFLE conversions, Enfields and Springfields overhauled, headspace checked and corrected. Handload ammunition and a few good rifles for sale, list for stamp. L. H. Anderson, 3800 Dover St., El Paso, Texas.

BARREL FITTING AND CHAMBERING FOR Lindahl chuckers and other calibers, Speedlock Enfields no welding $10.00. Ears milled same contour as barrel ring $6.00. Cut barrel and crown $2.00. Straighten guard tang $3.00. Bolt altering. Scope mounting, bluing. David Poyer, 2520 West Koenig, Grand Island, Nebraska.

BRAND NEW STOCKS FOR WINCHESTER REPEATING SHOTGUNS

Brand New Stocks, exactly the same as those used on the latest Model 12 Shotguns, standard grade, completely finished with fitted butt plate, all ready to drop into place, no fitting necessary. Made by Winchester and are of their usual quality and appearance, twelve gauge only, each $7.75
Same, brand new but very slightly shopworn, appearance excellent, mechanically perfect, (the difference between this and the $7.75 item is in appearance only and is negligible) 12 gauge only, each 6.00
Model 12 and 97 stocks as above but inletted for sling swivel, brand new, $5.75; very good or better 4.75
BARRELS, Remington Model 10 repeater, 20" cylinder, with fitted receiver extension, 12 gauge, brand new 5.75
MAGAZINE TUBES, Model 12 and Model 97, Remington Model 10, new (state if solid frame or takedown) 2.75

NON CORROSIVE SHOTGUN SHELL PRIMERS AT LESS THAN HALF PRICE!

Western No. 209 Battery Cup, fit all Western, Winchester and Federal Shells, 10 to 20 gauge inclusive, easily adapted to Peters & Remington. (list price now $11.03 per M). Per thousand, $5.25; per case of 5000 ..18.00
Bullets only (Remington): 6.5 Mannlicher Schoenauer, 150 grain Soft Point, $6.75 per hundred. 44-40, 160 gr. Mush 3.50

SIGHTS & MOUNTS

Redfield Junior, for most rifles	$10.75, $12.75 $14.75
Stith, for all scopes, 76 or 99, $5.00. Q.E.D. 70 only	17.50
Redfield Sights, to fit most rifles, 102, $5.75; 70H	8.50
Lyman 48 Sights to fit most rifles	12.50
Lyman 77 and 77H, with base and inserts	5.00

FIREARMS

Stevens-Springfield 87 Autoloading Rifles, 22L.R.	27.00
Stevens-Springfield 84 Bolt Action Clip Repeaters	21.00
High Standard Pistols, HDM 4½" or 6¾"	51.17
S&W, M&P, 2" & 4", Magna Grips, 38 Spl.	56.50

TELESCOPES

Lyman Alaskan, All Weather, choice of 7 reticules	$60.00
Norman-Ford Texan, post or crossbair	50.00
Weaver K2.5, $37.50. K4, $45.00. K6	48.50
Argus Spotting Scopes, Super Grade 20X, 55mm..	74.50
Freeland Deluxe Offset Stand	9.50
JUNIOR TARGETSPOTS, 10X only, complete	62.50
Bausch & Lomb Binoculars, 6x30 Lightweight	124.40
(All above items latest type with coated lenses)	
Weaver 12.5 Xhair, $22.50. J4 Xhair, ...	27.50
B&L RAYBANS, Ladies & Regular, $10.75. Skeet	12.50
LARGE RAYBAN SHOOTING GLASSES	15.00

All items except primers postpaid. Immediate shipment—Plentiful Supply. No C.O.D.'s. Send Check or Money Order

ROBERT K. HAELIG (LIFE MEMBER) **Dept. R, Bound Brook, New Jersey**

SHOOTING-KAP

Square visored cap made famous at Camp Perry Worn by thousands of shooters. 5" square visor. Green felt under visor kills glare. Leather sweatband. Zelan poplin. Metal eyelets. Comfortable, handsome, rugged. Tan, red or white.

150 POSTPAID

At your dealer or order direct. Send check, money order or cash, hat size and color to . .

GUN CLUB SPORTSWEAR
Box 477, Dept. AR, Des Moines, Iowa
SEND FOR FREE CATALOG

CUSTOM STOCKING

Military conversions. Am tooled up for most sporting calibers. Beautiful Bluing a specialty. Light weight sporting rifles. Fine walnut stocks.

W. L. GARTMAN
12 Richfield Ave. Cranston 10, R. I.

LEFT HAND SPRINGFIELD ACTIONS

NAVAL COMPANY
Doylestown Penna.

8mm CARTRIDGES

at $4 per 20.
Loaded with 170 gr. Soft Point Bullets. Fits 7.9; 8x57; all '98 Mausers.
No C.O.D.
New 32 Win. Sp'l. Primed Cases $5.00 per 100.
PHIL JUDD 83 E. Park St. Butte, Mont.

REBARRELING *and* CHAMBERING

ANY SUITABLE ACTION—MOST CALIBERS
WM. S. VAN HORNE
Life Member N.R.A.
5474 Philloret Drive Cincinnati 24, Ohio

Non-Congealing FOR WINTER HUNTING

★ FIENDOIL lubricates your gun . . . and prevents corrosion . . . at temperatures as low as 50° below zero!

McCambridge & McCambridge
BALTIMORE MARYLAND

ADAIR BARREL BLANKS

FOR GUNSMITHS
1¼"x28"—6 Groove—Right Twist—Heat Treated—High Tensile—Free Machining. Cals: .22-.25-.27-.30. Standard Blanks $17.50—Rough Turned $2.50 extra.
Prompt Service *Discounts to Gunsmiths*
JAMES D. ADAIR
RT. 1, BOX 161 ROSEBURG, ORE.

BARNES *Spitzer* Bullets

Announce a NEW Spitzer type 110 grain Soft Point .30 caliber bullet, made to take any velocity. For use in 300 Savage, .30-40, .30'06, .300 Magnum, etc.
Also a complete line of Soft Point Sporting Bullets in all calibers from 6MM to .375 Magnum.
Write for list
Fred N. Barnes PO Box 51 Durango, Colorado

Life Members, you'll want to show off this neat 10-K gold pin, emblematic of lifetime NRA membership. Price, including postage and federal tax — $3.50.

Something new for the annual member . . . the NRA eagle lapel button shown below. Gold filled! Price, including postage and federal tax — $1.50.

Even the old flivver feels dressed up wearing this Reflecto type auto emblem with the distinctive NRA eagle. Easily attached to your auto license plate. Postpaid, $1.00.

order from . . . . . .

WARNING!

KING COCKEYED HAMMERS

. . . Made only by King Gunsight Co. . . . are protected under Pat. No. 2159527—Trademark No. 353691—covering left, right or both side Cockeyed Hammers. Accept No Substitutes.

The **King Cockeyed Hammer** with "Never Slip" checking, greatly increases speed in cocking revolvers. Eliminates rolling of gun . . . thumb falls naturally across hammer to cock . . . invaluable in timed and rapid fire . . . can be cocked without loosening grip or pulling sights off target . . . gives more sighting time.

KING GUN SIGHT COMPANY
667 HOWARD ST., SAN FRANCISCO 5, CALIF.

Remodel your hammer with right or left hand spur or both sides (present trigger pull not affected).

Send hammer only with remittance $7.50
For Colt single action 9.50

Ask for illustrated folder KC 2 for other King handgun shooting aids

---

MAKE YOUR OWN BARREL BAND RAMP front sights from steel forged blanks $1.25 each. Rough bored by 64ths up to 41/64ths 75¢ extra. Double forward set trigger for Mausers, Enfields, and Springfields $10.00. State kind of action. John R. Speer, 7428 Richland Manor Drive, Pittsburgh 8, Penna. 8-48.

GENERAL GUNSMITHING, REPAIRING conversion work-parts made. Inquiries invited. R. K. Salisbury, 4564 Virginia Avenue, Oroville, California. 3-48.

MILITARY TO SPORTER CONVERSIONS, general gunsmithing, and custom bluing. Write for prices. Clayton's Gun Shop, 108 West 12th Street, Joplin, Missouri. 4-48.

SEND US YOUR GUNS FOR EXCELLENT bluing. Prompt service. Pistols $5.00, revolvers $6.00, Rifles-shotguns $7.50. Military conversion starting at $18.50 on Enfield, Springfield, Mauser, Krag. Bob Sands, 211 Montrose Avenue, Syracuse 4, New York. tf.

STAR BLUING SALTS. PERFECTED BY America's Original Bluing Firm. Simple, foolproof, no thermometer, any heat source, use indefinitely. Pistol size $2.95, shotgun $4.95. Gunsmiths $11.95. Precleaner $1.45, Finisher $1.45, Derustant $1.45, Tanks $3.95—Fancy bluing, plating, checkering, stocking. Genuine Pearl Ivory Grips. Gun Reblu, Fletcher 2, No. Car. tf.

MUZZLE CROWNING BRASS BALLS; SET of six, 5/16 through 5/8 $2.75 postpaid. Ray Tiffany, 5723 Alameda, El Paso, Texas. tf.

CUSTOM REBARRELING, .257, .270, 30-06 Mauser actions, $40.00. Other actions, $42.50. Ten days delivery. K2.5, K4, Texan, Alaskan scopes purchased with Redfield mount installed free. Super Glo stock finish $1.00 postpaid. Thompson's Gun Shop, 184 South Pennsylvania, Denver, Colorado. tf.

CUSTOM BARREL FITTING AND CHAMbering on bolt action rifles, for all popular calibers. Buhmiller, Chrome Moly barrel blanks. Reblluing, bolts altered for low scope mounting, scope mounting, and sight installation. We carry a large stock of scopes, mounts, sights, and other shooter's supplies. Medford Gun Shop, 1517 No. Riverside, Medford, Oregon. 4-48.

RIFLE CONVERSIONS, REBARRELING, chambering in most calibers, custom stocks to specifications. Scopes—Scopes mounts, sight mounting, rebluing. Ray M. Bell, 600 East Monroe St., Springfield 4, Missouri. 8-48.

WILDCAT REAMERS AND GAUGES MADE to your specifications. Bill Batzloff, 1812 Oliver Avenue, San Diego 9, Calif.

30-06 HEADSPACE, INSPECTION AND CORrection. Enfield and Springfield alterations. Complete tool room facilities. Best references. Write for literature. Ross Sherman, Dryden, N. Y.

COLT 32-380 AUTO RUBBER STOCKS, $1.00. Ralph Drake, Osborne, Kansas.

EXPERT GUN BLUING, STANDARD PROCess. Write for prices. C. E. Shepard, 308 South 3rd St., Minneapolis, Minnesota.

MAUSER CUSTOM RIFLES IN 257R, 270W, 30-06, 300 Savage, 220 Swift 22-250 and Hornet. Rebarreling in same calibers. Expert stocking and bluing. Bolts altered for low scope. Enfield bolts changed to cock on opening. Most calibers in stock in Mauser rifles. One week service, write for prices. Dornon's Gun Shop, R.D. #2, East Palestine, Ohio.

U.S. ARMY LEATHER RIFLE SLINGS, 1¼", good condition, $9.00 per dozen. Samples $1.00 each. Quick detachable 1¼" sling swivels, new, $8.00 per dozen pair. Send coin 10¢ for list of sportsmen's supplies available for immediate shipment. Sportsmen's Supplies, 250 West Bayberry Lane, Upper Darby, Penna.

C. R. PEDERSEN & SON
Ludington, Michigan

CUSTOM BARRELING

USING .220, .22-250, .250-3000 Elliott BARRELS 257, 270, 30-06 300 Sav. 30-40

MAUSER 300 Sav.—30-06 Mil. bbl., Ramp, Blue, etc., $32.50

ENFIELD Start at $25.00 SPEED ACTION, $12.50

SPRINGFIELD Ramp blue, etc. $15.00

STOCKS CUSTOM FITTED From $34.50

We have the new F.N. Mauser Actions
Write for complete price list. Actions accepted.

DISTRIBUTORS FOR
Redfield—Bughler—Mershon—Weaver

Pedersen Ramps, incl. 6-48 screw $2.00 ppd.
30 cal. Brass Brushes—10 for $.45 ppd.
Wanted—New Govt. Barrels

FULL LENGTH ZIPPER SHEEPSKIN GUN CASE

CUSTOM-MADE BY NICHOLS

This new improved sheepskin gun case an exclusive Nichols' design is without question the finest most practical case ever made. Individually cut for perfect form fit. Thoroughly reinforced around breech, butt and muzzle, and bound with elk leather.

PRICE POSTPAID

Standard Size Case	$13.85
Bolt Action Rifles	$14.95
Rifles with Sport Scope	$17.95
Rifles with Target Scope	$23.65

Handles or sling strap - optional

When ordering - be sure to send outline drawing of gun or rifle with scope mounted.

Send check. Order Now. Ask for new Sportsmen's Catalog

R. C. NICHOLS CORP., YARMOUTH, MAINE

GOOD NEWS

Get ready for Camp Perry August 8th to September 4th.

We have been serving The Rifleman since the first Camp Perry 1907. Always dealing direct with The Shooter at reasonable prices. We are still doing business the same way.

Here are our specials for this month:

O'Hare Micrometer, used $4.00	new $5.00
Locking Rear Sight Cover	1.00
Snap on Front Sight Cover	1.00
Perfection Score Book .30 Caliber	.50
One-piece .30 Caliber Rod 1.00	jointed 1.25
Brass and Bristle Brushes	3 for .25
O'Hare Cleaning Patches	box .20
Sheepskin Shooting Mitt	1.00
Sheepskin Spotting Scope Covers for B&L draw type, N.R.A. Model, 65 mm, Argus Mossberg	2.50

Rifle Club orders for .22 Caliber, regular and match brands at special Club price. Remington and Winchester Target Rifles always available

P. J. O'HARE

Largest Manufacturer and Dealer in Riflemen's Accessories

552 Irvington Avenue Maplewood, N. J.

U.S. MUSKETS, RIFLES & CARBINES

Col. Gluckman's newest book—$8.50

GUN COLL. HANDBOOK OF VALUES, Chapel — $6.00

NEW FRANZITE GRIPS

Plastic, in six colors: Ivory, pearl, walnut, onyx, petrified wood, and black.

HD-Mil. Hi Standard	$3.00
Walther PPK	5.00
P-38 Walther 9 mm DA	4.50
.32 Mauser DA HSC	3.50
.32 Walther PP DA	3.50
Radom P-35 9 mm	3.50
9 mm Belg. or Can. Brng. B1935	3.50
.32 & .380 Sauer DA Model 38	3.50
Colt .45 Auto., .38 Super, .22 Ace	3.00
Colt Woodsman, Standard size	3.00
Colt New Service and M1917	3.50
Colt Single Action	3.00
S&W Mil. & Police with square grips	3.00
S&W M1917, Outdoorsman, .38 44 HD	3.50

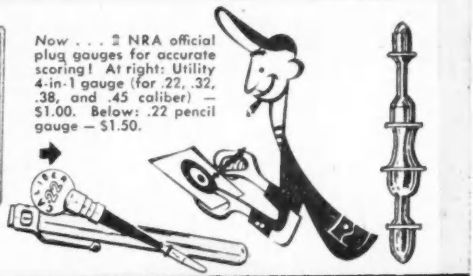
Will quote on target and fancy models
Please Remit with Order

LINWOOD SPORTS CO.
P. O. Box 377 Linwood, Mass.

CAN'T FIND IT?

Your file of *The American Rifleman* is always neat and in order if kept in this goodlooking loose-leaf binder. Holds a whole year of *The Rifleman*. Postpaid, $2.75

Now . . . 2 NRA official plug gauges for accurate scoring! At right: Utility 4-in-1 gauge (for .22, .32, .38, and .45 caliber) — $1.00. Below: .22 pencil gauge — $1.50.



NATIONAL RIFLE ASSOCIATION 1600 RHODE ISLAND AVE., N. W., WASHINGTON, D. C.

JAP 31—7.7MM. CHAMBERED TO 300 SAVage, magazine altered, with original sights $15.00. Redfield 70 and ramp front $14.00. Additional. Bolt altered $3.00. All conversions proof fired. I reserve right to refuse conversion in case of poor material or defects. No responsibility assumed should damage occur in proofing. Military conversions, wildcats, repairing, bluing, stocking. "A full time job with me, no part time". Harry Y. Haight, General Gunsmithing, R.F.D. #4, New Fairfield, Connecticut.

MILITARY CONVERSIONS- REMODELING new barrels fitted- barrel blanks. Brodeur & Nedeau, 302 East, Ludlow, Mass.

I DUPLICATE ANY RIFLE OR GUN STOCK ready for hand fitting, $5.00. Dave W. Thomas, Vineland, N. J. tf.

ORDER THAT VARMINT RIFLE NOW, built on new Mauser action or your singleshot, $37.50 up, ask for our special terms. See other ad this column. Ben's Gun Shop, Pleasant Gap, Penna. tf.

JOHNSON BARRELS FOR GUNSMITHS: Blanks, semi-finished barrels or completely chambered and attached to your action in 4 weights from Featherweight to Bull barrels—calibers .22, .25, .27 and .30. Discounts to dealers. Johnson Automatics, Inc. Providence 1, Rhode Island. tf.

GUNSMITH SUPPLIES: ENFIELD SPEED action parts; cocks on opening, etc. Complete kit $5.00. 6x48 screws ⅛ to ½" asst. doz. 80 #31 drills for hard actions $1.00. Barrel vise castings, similar to Pacific, bore and thread on 10" lathe $7.50 f.o.b. Lambswool gun cases 24" barrel bolt action $9.75 postpaid. Stockmakers rasp, half round, double cut and rasp teeth combination 59¢. Ramp blanks 3/8", 7/16", 9/16" high 3" long, barrel and sight slot milled $1.25. Springfield bolts stripped $3.50. Mauser bolt stop screws 20¢ bolt sleeve lock plunger 60¢, guard screws 50¢, lock screws 25¢. Enfield extractors 75¢. Above prices net. Buehler mounts, and safetys, all numbers. White line pads and butt plates Standard discounts. Do we have your name on our mailing list? C. R. Pedersen & Son, Ludington, Michigan.

AMMCO 7" PRECISION METAL SHAPER complete with motor, excellent to perfect, used less than 20 hours, $300.00 F.O.B. Easley, So. Car. Martin Instrument Co., Easley, S. Car.

CUSTOM RIFLES, 30-06, 270, 257R, 300 SAVage on your Mauser, Springfield, Enfield actions. Complete military conversions. Bluing. Scopes and sights in stock. Work guaranteed. Send for folder. Ken Rusk Gun Shop, 951 Oak St., Madison, Wisconsin.

GUNSMITH SHOP—CENTRAL MASS., INcludes machine tools. Write for details. Frank DeMarco, 7A Clarkson St., Worcester, Mass.

NEW 30-06 BARRELS FITTED TO MAUSER actions. $22.50. Springfield actions, $17.00. Blued barrels $2.00 extra. Walter A. Rompel, New Braunfels, Texas.

CONTRASTING WOOD INLAYS, FANCY checkering. Your designs or mine. Prices on request. R. Ellsworth, Baudette, Minnesota.

BRASS BALLS WITH SHANK. 5/16" -¾"—½"—90¢ set, $3.00 dozen. Irving Faller, Bristol, New Hamp.

7.7 JAP RIFLES RECHAMBERED TO 30-06 for $10.00 or 300 Savage $15.00. Bend bolt measure bore, test fire and send you fired cases. One week service on 30-06. Albert M. Romberger, Cressona, Penna.

JAP ARISAKA SAFETYS ALTERED. POSItive, quick, thumb operated allows scope mounting $5.00. Other Jap refinements—write for particulars. Ward's Sporting Goods, Clay Center, Kansas.

Lighter in weight, yet rugged, field-sturdy and optically perfect, the "Texan" is ideal for every use in the field. You don't just shoot with the "Texan," you HIT with the "Texan."

- Instant windage and elevation adjustments! Simply use edge of weatherproof adjustment cover as screwdriver.
- Hard Coated Lenses give 30% more light transmission.
- Mounts easily on Stith, Redfield, Griffin & Howe, Williams and other mounts.
- 40-foot field at 100 yards . . . 2½X magnification with 4½" eye relief
- Parallax removed at factory.

See the "Texan" at your dealer's, or write today for complete new booklet to

COL. TOWNSEND WHELEN says "I have now had the opportunity to go quite thoroughly into and test the 'Texan' Scope. . . . I am very much pleased with it. It has the resolving power at least equal to that of any other 2½X scope on the market. Its field of view is equalled by only one other scope I have examined and that was neither a 2½X scope nor an American scope and is no longer made."

NORMAN-FORD COMPANY Dept A, 1312 W. Erwin Street TYLER, TEXAS

TRIGGER ATTACHMENT

FOR ENFIELDS, SPRINGFIELDS, MAUSERS, 30 REMINGTON and KRAGS

Complete with instructions for installing. Price $2.50

This attachment will take all the slack out of the trigger on any of these military actions and will give you as crisp a trigger pull as safety will permit.

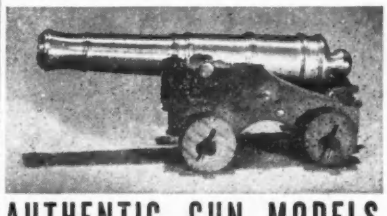
See your dealer or order direct, giving make of rifle for which attachment is wanted.

ENFIELD RECEIVER precision ground full length, barrel cut off and muzzle crowned if desired, all for $5.00

STRAIGHTENED ENFIELD TRIGGER GUARDS Exchange $2.50

These guards are blued and furnished with one long screw. SOLD ONLY ON AN EXCHANGE BASIS. The above two items as priced do not include shipping charges. They will be returned C.O.D. if desired.

VIGGO MILLER, 4340 Charles St., Omaha, Neb.



AUTHENTIC GUN MODELS

that make real

COLLECTORS' PIECES

A one evening project hobby that's sweeping the country. Beautiful complete kits that are easy to assemble — polished brass barrel, finished brass parts, wood parts cut to shape, simplified instructions.

ONE POUNDER (War of 1812) Illustrated . . . $4.00
SEA MORTAR (Napoleonic War) $4.00
FIELD ARTILLERY (Am. Revolution) $5.00

Ask your dealer for "Marine" Gun Kits. Pioneers in Model Ships and Guns.

HALESITE YACHT SERVICE, INC.
HALESITE, L. I., NEW YORK

ENFIELD OWNERS

An entirely new safety device will be announced next month.

The Clark Eye Shield (patent pending) is designed to protect your shooting eye from the dangers of that occasional blown primer.

A wise investment at only $5.00 installed on your bolt sleeve. For Enfields only. Standard model for issue Enfields. Short model for speed action Enfields.

KENNETH CLARK, Madera, Calif.
Phone 39011 Life Member N.R.A. Rt. 1, Box 95

SIGHTS

RETAIL AND WHOLESALE

We believe that we have the largest and most complete stock of ALL MAKES of sights, scopes and mounts in the U. S. Expert sight mounting and targeting. Fast and accurate service.

Dealers inquiries invited.
WRITE US REGARDING YOUR SIGHT PROBLEMS
THE ORIGINAL SIGHT-EXCHANGE
"Gun Sight Specialists"
P. O. Box J Paoli, Penna.

LOADING TOOLS

POWDER—PRIMERS—BULLETS

Wisconsin Gun Company
Winneconne Wisconsin

GUNSMITHING

General repairs, Chambering, Bbl. Fitting, Scopes mounted, Rebluing. Swing out flush type magazine for Krags. 8 MM 57 shells 170 gr., $4.00 for 20.

30 years experience — Life Member

R. J. LACY, Gunsmith
900 Conewango Ave, Warren, Penna. Licensed Dealer & Manufacturer

"Trader Max" says

TRADE NOW! EXPRESS GUN FOR ESTIMATE. I'LL ANSWER SAME DAY

Colt — S&W — Rem. — Win. — Guns Are Coming! Get on Our List Today!

1948 GUN POLICY

"Send your name and address on a penny post card, listing the guns (scopes, mounts and other equipment too) you want. We'll file them in the order received. As fast as we receive shipping notice from the factory, we will send you a notice with the present price and you will have the first opportunity to purchase these scarce guns and equipment. You may send a deposit to hold and ship COD or remit in full and gun or equipment will be rushed to you."

IN STOCK - PROMPT DELIVERY

High Std. HDM—4½, 6¾	$49.50
H&R 922 9 SHOT, 6"	24.75
Marlin #39A Lever Action	50.45
Weaver J4 PPD. $27.50. K6 PPD.	48.50
Weaver G4 w/mount PPD.	9.75
Weaver J2.5 PPD.	22.50
Weaver K2.5, Coated PPD.	37.50
Weaver K4, Coated PPD.	45.00
H&R Sportsman 22	44.95

Finks "Famous for Sports"
WILLIAMSPORT, PA.

RAMPS - BARREL BANDS - SIGHTS - SCOPES - MOUNTS
SOLD, EXCHANGED AND INSTALLED
REBARRELING RESTOCKING
PLEASE SEE FEBRUARY ILLUSTRATED AD
(Ask for free folder)
TERHAAR GUN WORKS 7 West 21st. St., JACKSONVILLE, FLORIDA

5 STAR

NRA Manuals

—to give you hours of constructive reading on a variety of shooting subjects—"Simplified Small Arms Ballistics"—"From Tyro to Master" for the rifle shooter—"Remodeling Military Rifles" for the home gunsmith—"American Sighting Scopes." —"The ABC of Pistol Shooting." Twenty-five cents each or all five for one dollar.

NRA BOOK SERVICE
1600 Rhode Island Avenue, Washington 6, D.C

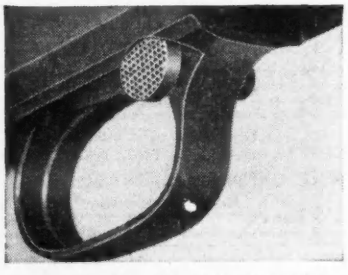
TIME SAVING **GUNSMITH TOOLS**
MUZZLE CROWNING CUTTERS, made of high speed steel, with accurately centered pilot hole. Two sizes cover most all caliber and barrel sizes. These Muzzle Crowning Cutters will give an accurately centered crown cut, in a fraction of the time required by other methods. For complete descriptive bulletin, write us a postal card.
IDEAL LABORATORY TOOL & SUPPLY CO.
3619 EVANS AVENUE CHEYENNE, WYO.

THIS IS IT!!!--
A custom rifle in four models. Options as to stock style, dimensions and details. Built on new Mauser actions manufactured by Fabrique Nationale, Liege, Belgium, with Johnson automatics barrels in four weights. All parts are new, action and barrels proof tested and headspaced, bolts altered for low scope. All popular calibers adaptable to the Mauser action. Write
JOHN P. HAGERTY South Woodstock, Connecticut

Neil J. Kenney
GUNSMITHING
SPECIAL OR ODD WORK
ALL BARRELS PROOF FIRED
Write for Details
4023 Richmond St. Chicago 18, Ill.
Phone—Juniper 5045

GUNS OF DISTINCTION
CUSTOM CARVING of Real Beauty
Send for illustrated price list

New Carved Guns for Sale—
M-70 Winchester Springfield Sporters
Custom-Built Roy Weatherby Magnums.
ANTHONY GUYMON *House of Beautiful Guns* **BAKER, ORE.**



THE "BIG HEAD" SAFETY
FOR WINCHESTER MODEL 12
Fits all gauges, right or left hand available. Fast, certain. No fumbling—even with gloves. Simple and easy to install. **$2.95**
See your dealer.
A-B ENGINEERING
4303 N. Sawyer Ave. Chicago 18, Ill.

Pearl **GRIPS**
LESS THAN $1.25 SET
Your Profit Runs Up to 800%
SEND FOR CIRCULAR
MIRACLE PRODUCT CO.
44 N. Albany Ave. Chicago, Ill.

WE SPECIALIZE IN ENFIELD CONVERsions. Stock remodeled, and finished. Add recoil pad, barrel cut and crowned. Remove ears, straighten floor plate. Check head space. Polish and blue. Sights installed free, $25.00. 10 cents for pictures and price list. Work guaranteed. Central Supply Co., Beatrice, Nebraska.

MAUSERS CUSTOM RIFLES—30-06, 300 Savage, 270, 257R, 22-250, 220 Swift, rebarreling in same calibers. Expert stocking & bluing. Write for prices. Want Mauser actions. Dornon's Gun Shop, E. Palestine, Ohio.

FREE SERVICE ON ENFIELDS AND Springfields. Will check headspace and safety on these free. Reasonable prices on any alteration or conversion you want. Will install your barrels $5.00. Will rechamber Jap rifles, bend bolt, proof fire at 70,000 pounds, $7.50. Rechamber any 32-40 to .32 Special, $5.00. Will rebuild any 1894 Winchester to 30-30 with model 64 barrel. Rebarrel Mausers to any standard caliber. General repair work. Write your wants. MacFarland Gun Shop, Loman, Minn.

ENFIELD OWNERS: CRISP NO SLACK adjustable trigger pull, $2.50. Send trigger & sear for machining & fitting. Enfield bolts altered $7.50. Ears removed $5.75. .301 or 7.7mm. Jap to 30-06, $10.00. To .300 Savage $18.75. 30-30 caliber Savage 99 to .300 Savage $15.00. Military rifles converted to sporters. Charles F. Curns, 3560 Falcon Avenue, Long Beach 7, California.

GENERAL GUNSMITHING, RECHAMBERing, rebarreling, rebluing, restocking. Alter bolts and safeties for low scope. Alter Enfield bolts to cock on opening, speedlock. Rechamber the 9mm. Jap revolvers to use factory cartridges. Precision rechambering and sizing die reamers, standard, wildcat, or your dimensions. New and used shotguns, target, small and big game rifles. Factory cartridges and shells, Powder, primers, bullets, Pacific and Easton reloading tools and dies in 46 calibers; 70 bullet moulds; lubricators and sizers; powder measures; scales; Hercules and Dupont powders $1.05 and $1.70. About everything for the hunter, target shooter and reloader. We reload over 150 different calibers, adding more; some are 8mm., 9mm. 8x60, 7x64, 9.3x62, 31, 6.5 (25) Jap, 6.5 x 54, 6.5 x 57, 8.15 x 46R, 6.5 Mannlicher Schoenauer, 6.5 x 53R, 8x51. Some of our improved cartridges we rechamber and furnish dies for: 6.5x57 Jap, 8x57R, 8mm. Magnum, 9.3x72, 9.3x74, 256 Newton, 8.15x46R, 7.8x50 Austrian Straight pull, 250-06, 6.5 Mannlicher Schoenauer. 10X spotting coats. Argus, Unertl, Weaver, Lyman and other spotting, target and hunting scopes; Redfield, Stith, Ackley (Turner), King Pike, Weaver and other scope mounts. Improve your score with our 52 Winchester trigger job, only $15.00 worth $25.00. Mashburn triggers for Springfield, Mauser, Enfield, Remington 30-S etc. $15.00; same, Krause Improved $17.50; installation $2.50. Complete stock of books on guns, reloading, gunsmithing, restocking, stories, etc. Rifles: 300 Savage, 250 Ackley Magnum, 257 Roberts lightweight, several 30-06 sporters. Ask about our .270 cartridge for Savage model 99. Need 25,000 good clean 30-06 fired cases 1934 and later; give lowest cash price. Write for prices and mark this ad for future reference. F. R. Krause, The Gun Man, 305 E. Iron, Albuquerque, New Mexico.

RIFLED BARREL BLANKS—REVOLVER 1" x 9" .38 and .45 caliber $5.00. 1"x27" .38 and .45 caliber $15.00. Chrome-nickel rifle blanks 1¼" x 27" .35 Whelen and .270 caliber $16.00. Colt S.A.A. cylinder bolts $2.00. Trigger springs 75c. J. H. Danskin, Rt. #3, Box 811, Fontana, California.

GUNSMITHING-REBLUING-REBARRELING Jap rifles converted—Headspace adjusted. Precision handloads including 8mm. Laurence E. Mauman, 1048 So. 5th Street, Douglas, Wyoming.

PRECISION PRODUCTS AS YOU'VE always bought them—Speed action springs- Mauser, Enfield, Springfield $1.00. Schmidt's barrel rasp, large and small cutting heads $3.50. Mount rings for Redfield Jr. base, custom made to your exact needs, $12.00. Yep, even for the Heinie Featherweights with that blankety blank rail. Kraut mounts removed, scopes cleaned, reblued $10.00. Reticule and coating service. Whats new bub? Schmidt's hot springs for Win. 54, 70 and Krag. Middle sized cutter head for the ole rasp $1.50. Schmidt's shooting sticks to give precision holding for testing or varmint, a buck. And Now—Completely custom engineered mount service in German optics for boys that love to spend money. Postage please. COD's?? Sure we love 'em. Schmidt Precision Products, 3027½ Dolores Street, Los Angeles 41, California.

RIFLE BARREL BLANKS OF QUALITY. Six groove barrels in all popular models of the following calibers: .22, .25, .270, 7mm., .30, .35 & .38. Special twists and 30" barrels made to order. Gunsmiths write for special price scale. Kellaby Company, 1103 No. Bristol, Santa Ana, California.

MYRTLEWOOD STOCK BLANKS GUARANteed dry. Cut full. Standard select $7.50, fancy $10.00, extra fancy $12.50 up. Joe Queen, Rt. #2, Box 395-B, Roseburg, Oregon.

MILITARY TO SPORTER CONVERSIONS restocking, rebluing, sight and scope mounting, general gunsmithing. Discounts to dealers and gunsmiths. Prices on request. Charles Wright, "The Gun Man", 13 South Main St., Jamesville, Wisconsin.

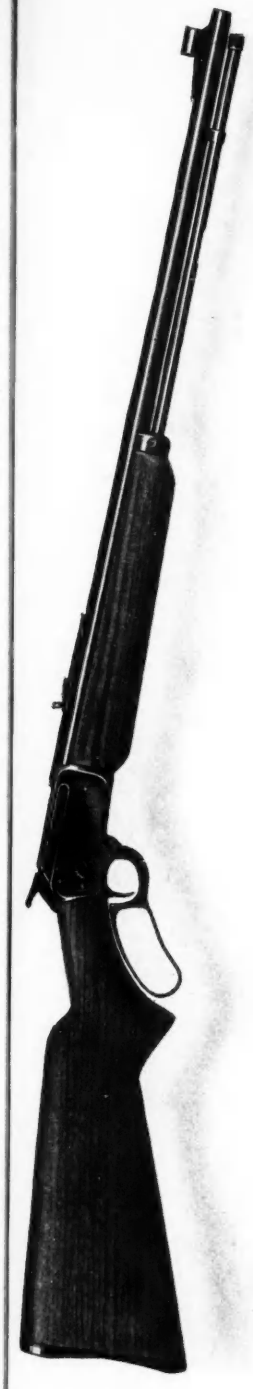
WILLAMETTE GUN SHOP—455 FAIRview, Salem, Oregon—Custom rifles- custom stocks- military conversions, "Blue Black" bluing.

Why every shooter wants a *Marlin* 39-A

Certainly one of the most versatile of sporting firearms, the famous Marlin 39-A has been a favorite of sportsmen the world over for more than half a century. From Australia during the South Pacific war, an R.C.A.F. Pilot wrote: "This rifle is looked upon as the most accurate and long-lived rifle now in the hunting circle." Its lightning-fast action is ideal for snap shooting and running game. It has the famed Marlin solid top receiver, allowing *lowest* telescope mounting. Its safe side ejection keeps fired shells out of the face.

THE MARLIN 39-A is the only lever action .22 cal. repeating rifle made—fast and never-failing! Its unique take-down construction gives instant access to working parts.

Finely stocked and balanced, sturdy and accurate, it's the rifle most cherished by real shooting fans. Now Marlin's 39-A is again available at your dealer...See him soon!

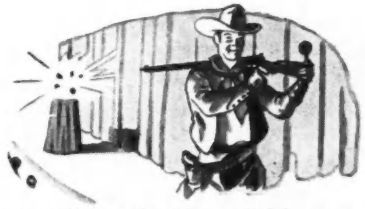


Marlin 39-A

LEVER ACTION .22 CAL. REPEATING RIFLE

SPECIFICATIONS • Lever action • Solid top receiver • Side ejection • 24" medium heavy, round tapered barrel, special analysis steel • Ballard type rifling, crowned muzzle • Full pistol grip American walnut stock • Take-down, exposes all working parts by turning one handscrew • Visible hammer • Full magazine—25 short; 20 long; 18 long rifle .22 cartridges—regular or high-speed without adjustment • Drilled and tapped for Lyman 56 and other receiver sights, and for tang peep sights • Overall length 41"—weight approximately 6½ lbs.

Marlin's 39-A is a fast, hard-hitting vermin-getter. Magazine holds up to 25 cartridges.



"Fancy exhibition shots" have relied for generations on the fast-handling, accurate 39-A.

Proud possession of a lifetime, the sturdy, handsome 39-A is an ideal "learning" rifle.

Single or Double Edge • 12 for 25¢

THE MARLIN FIREARMS COMPANY • *Established 1870* • NEW HAVEN, CONN., U. S. A.

JOIN THE TREND TO THE NEW EZXS

They'll Put You Out in Front . . . Keep You There!

NEW from Headstamp to Bullet . . . Smokeless

Latest product of the famous Winchester ballistic research, today's *Smokeless* EZXS (Staynless) are the finest match 22's ever offered by Winchester to American target shooters.

Test these new EZXS yourself. Step up and shoot ten. You'll particularly like the greater accuracy, superior wind-bucking qualities and outstanding cleanliness of the *new* EZXS.

Sound like a lot to expect? Ask your local hardware or sporting goods dealer for a box of these *new* EZXS and see if we've exaggerated . . . even a little bit.

LOOK For the NEW RED, YELLOW & BLUE CARTON

Here's the Rifle Experts Favor . . . Hands Down

The Famous WINCHESTER 52

TRADE-MARK

Maybe *one* expert could be mistaken. But when thousands choose the Winchester 52, that statement just *can't* be anything but the truth. Moreover, backing it up, is its 30-year record of having won more regional, state, national, even International Small Bore Rifle Matches, than any other rifle. Yes Sir! the famous Winchester Model 52 knows how to back up the most expert shooter's skill. Winchester Repeating Arms Company, New Haven, Connecticut, Division of Olin Industries, Inc.

A BOOK YOU'LL WANT . . . IT'S FREE!

It's full of up-to-date tips and many illustrations. The N. R. A. helped write it. Use the coupon please.

SPORTSMEN'S SERVICE BUREAU—Dept. 7—AR-02
Sporting Arms & Ammunition, Manufacturers' Institute
343 Lexington Avenue
New York 16, New York
Send me free copy of rifle shooting booklet. (Please print.)

NAME.....

ADDRESS.....

CITY.....ZONE....STATE.....

WINCHESTER
TRADE-MARK
ARMS AND AMMUNITION MADE FOR EACH OTHER

DIVISION OF OLIN INDUSTRIES INC.

RIFLES • CARTRIDGES • SHOTGUNS • SHOTSHELLS • FLASHLIGHTS • BATTERIES • ROLLER SKATES AND OTHER PRODUCTS

to
S
ON
52
any
mous
how
pert
Re-
New
ision
EE!
ions.
ease.
ON OF
LIN
STRIES
IC.
TS